VAUXHALL Astra

# Owner's Manual
# Model Year 2012
# Edition: August 2011
# TS 1612-A-12

# Contents

Introduction ..... 2
In brief ..... 6
Keys, doors and windows ..... 19
Seats, restraints ..... 45
Storage ..... 65
Instruments and controls ..... 82
Lighting ..... 113
Climate control ..... 120
Driving and operating ..... 128
Vehicle care ..... 155
Service and maintenance ..... 201
Technical data ..... 205
Customer information ..... 244
Index ..... 246

# Introduction

| | | | | |
|---|---|---|---|---|
| Fuel | Designation | | | |
| Engine oil | Grade | | | |
| | Viscosity | | | |
| Tyre pressure | | Tyre size | Front | Rear |
| | Summer tyres | | | |
| | Winter tyres | | | |
| Weights | | | | |
| | Gross vehicle weight rating | | | |
| | - Kerb weight, basic model | | | |
| | - Additional weight | | | |
| | - Heavy accessories | | | |
| | = Loading | | | |

## Vehicle specific data

Please enter your vehicle's data on the previous page to keep it easily accessible. This information is available in the sections "Service and maintenance" and "Technical data" as well as on the identification plate.

## Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Manual provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

You must always comply with the specific laws and regulations of the country that you are in. These laws may differ from the information in this Owner's Manual.

When this Owner's Manual refers to a workshop visit, we recommend your Vauxhall Authorised Repairer.

All Vauxhall Authorised Repairers provide first-class service at reasonable prices. Experienced mechanics trained by Vauxhall work according to specific Vauxhall instructions.

The customer literature pack should always be kept ready to hand in the vehicle.

## Using this manual

- This manual describes all options and features available for this model. **Certain descriptions, including those for display and menu functions, may not apply to your vehicle due to model variant, country specifications, special equipment or accessories.**
- The "In brief" section will give you an initial overview.
- The table of contents at the beginning of this manual and within each section shows where the information is located.
- The index will enable you to search for specific information.
- This Owner's Manual depicts left-hand drive vehicles. Operation is similar for right-hand drive vehicles.
- The Owner's Manual uses the factory engine designations. The corresponding sales designations can be found in the section "Technical data".
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- The vehicle display screens may not support your specific language.
- Display messages and interior labelling are written in **bold** letters.

## Danger, Warnings and Cautions

**⚠Danger**

Text marked ⚠**Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

| ⚠Warning |
| --- |
| Text marked ⚠**Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury. |

| Caution |
| --- |
| Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage. |

## Symbols

Page references are indicated with ⇨. ⇨ means "see page".

Thank you for choosing a Vauxhall.

We wish you many hours of pleasurable driving.

**Your Vauxhall Team**

# In brief

## Initial drive information

## Vehicle unlocking

### Radio remote control

Press button ⏤ to unlock the vehicle.

Open the doors by pulling the handles.

To open the tailgate, push the touchpad below the handle.

Radio remote control ⇨ 20, Central locking system ⇨ 24, Load compartment ⇨ 27.

### Electronic key

When in possession of the electronic key, simply pulling the door handle will unlock the vehicle and open the door. To open the tailgate, press the button under the moulding.

Open&Start system ⇨ 21.

# Seat adjustment

## Seat positioning

Pull handle, slide seat, release handle.

Seat adjustment ⇨ 48, Seat position ⇨ 47.

**⚠ Danger**

Do not sit nearer than 25 cm from the steering wheel, to permit safe airbag deployment.

## Seat backrests

Turn handwheel. Do not lean on seat when adjusting.

Seat adjustment ⇨ 48, Seat position ⇨ 47, Folding front passenger seat backrest ⇨ 50.

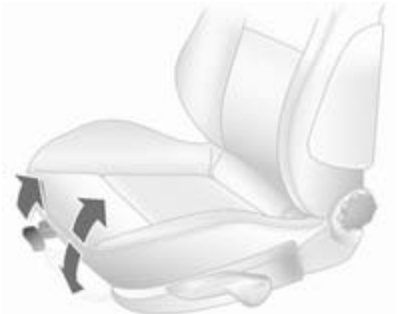
## Seat height

Lever pumping motion

up = higher
down = lower

Seat adjustment ⇨ 48, Seat position ⇨ 47.

## Seat inclination



Pull lever, adjust inclination by shifting body weight. Release lever and audibly engage seat in position.

Seat adjustment ⇨ 48, Seat position ⇨ 47.

## Head restraint adjustment

Press release button, adjust height, engage.

Head restraints ⇨ 45.

## Seat belt

Pull out the seat belt and engage in belt buckle. The seat belt must not be twisted and must fit close against the body. The backrest must not be tilted back too far (maximum approx. 25 °).

To release belt, press red button on belt buckle.

Seat belts ⇨ 52, Airbag system ⇨ 55, Seat position ⇨ 47.

# Mirror adjustment

## Interior mirror

Swivel the lever on the underside to reduce dazzle.

Interior mirror ⇨ 33, Automatic anti-dazzle interior mirror ⇨ 33.

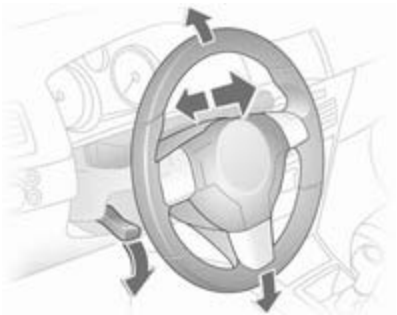
## Exterior mirrors

### Electric adjustment

Select the relevant exterior mirror and adjust.

Electric adjustment ⇨ 31, Convex exterior mirrors ⇨ 31, Folding exterior mirrors ⇨ 32, Heated exterior mirrors ⇨ 32.

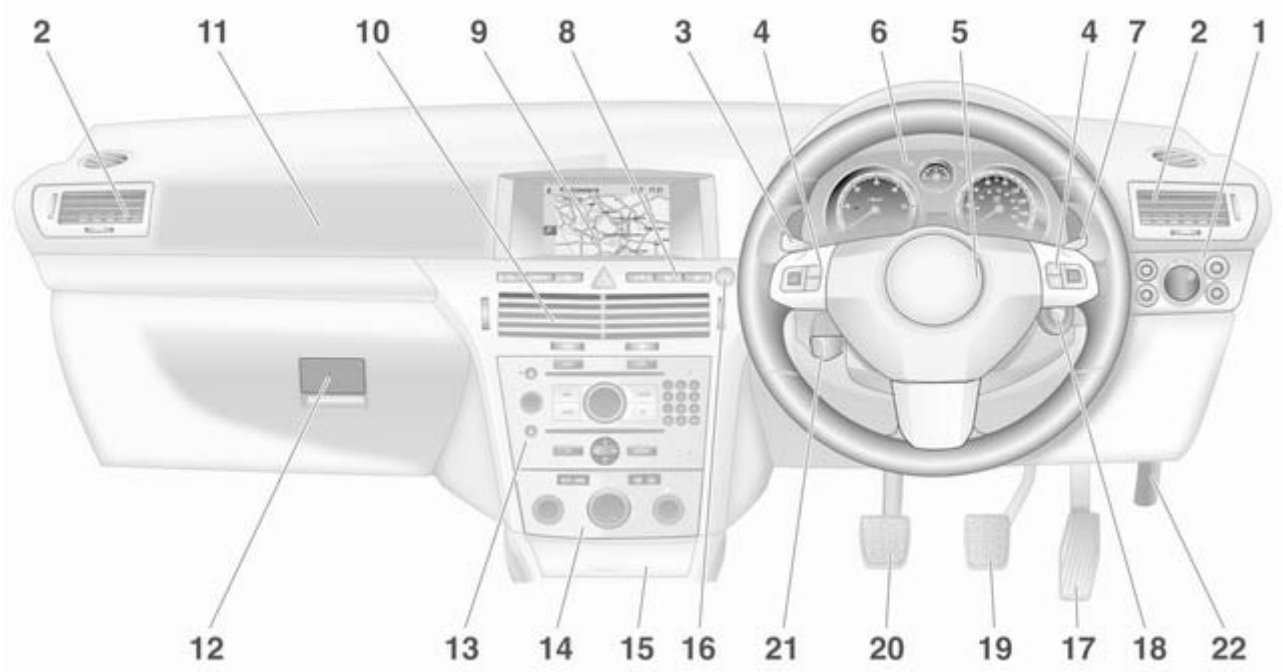
# Steering wheel adjustment



Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked. Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

Airbag system ⇨ 55, Ignition positions ⇨ 129.

## Instrument panel overview



1 Light switch ..... 113
Instrument illumination ..... 117
Rear fog light ..... 116
Front fog lights ..... 116
Headlight range adjustment ..... 114

2 Side air vents ..... 126

3 Turn and lane-change signals, headlight flash, low beam and high beam ... 116
Exit lighting ..... 119
Parking lights ..... 116
Cruise control ..... 98

4 Steering wheel controls ..... 82

5 Horn ..... 83
Driver airbag ..... 55

6 Instruments ..... 89

7 Windscreen wiper, windscreen washer system, headlight washer system ..... 83

8 Left heated seat ..... 51
Deflation detection system .. 186
Tyre pressure monitoring system ..... 185
Ultrasonic parking sensors ... 94
Load compartment unlocking ..... 27
Hazard warning flashers ..... 115
Central locking system ..... 24
Sport mode ..... 94
Right heated seat ..... 51

9 Info-Display ..... 98
Trip computer ..... 108
Electronic climate control system ..... 123

10 Centre air vents ..... 126

11 Front passenger airbag ..... 55

12 Glovebox ..... 65

13 Infotainment system ..... 10

14 Climate control system ..... 120

15 Ashtray ..... 87

16 Start/Stop button ..... 21

17 Accelerator pedal ..... 128

18 Ignition switch with steering wheel lock ..... 129
Sensor panel for emergency operation of Open&Start system ..... 21

19 Brake pedal ..... 142

20 Clutch pedal ..... 128

21 Steering wheel adjustment ... 82

22 Bonnet release lever ..... 156

## Exterior lighting

Turn light switch

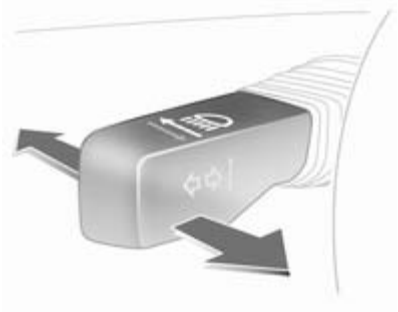
**0** = Off
⇛⇚ = Sidelights
≣D = Headlights
AUTO = Automatic light control

Press light switch

⧧D = Front fog lights
D⧧ = Rear fog light

Lighting ⇨ 113.

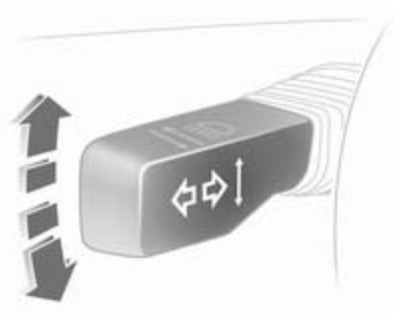
## Headlight flash, high beam and low beam



Headlight flash = Pull lever
High beam = Push lever
Low beam = Push or pull lever

High beam ⇨ 114, Headlight flash ⇨ 114.

## Turn and lane-change signals



To the right = Lever up
To the left = Lever down

Turn and lane-change signals ⇨ 116.

## Hazard warning flashers

Operated with the ⚠ button.

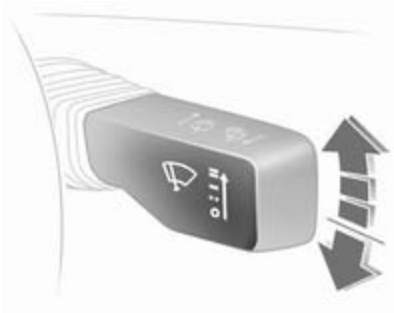
Hazard warning flashers ⇨ 115.

## Horn

Press .

# Washer and wiper systems

## Windscreen wiper

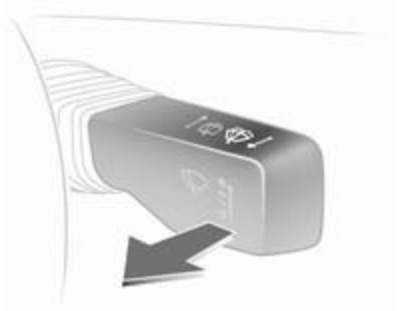


= fast
= slow
= timed interval wipe or automatic wiping with rain sensor
= off

For a single wipe when the windscreen wiper is off, press the lever down.

Windscreen wiper ⇨ 83, Wiper blade replacement ⇨ 161.

### Windscreen and headlight washer systems



Pull lever.

Windscreen and headlight washer system ⇨ 83, Washer fluid ⇨ 159.

### Rear window wiper and washer systems

Wipers on = push lever
Wipers off = push lever again
Wash = push lever and hold

Rear window wipers and washer system ⇨ 84, Wiper blade replacement ⇨ 161, Washer fluid ⇨ 159.

## Climate control

### Heated rear window, heated exterior mirrors

Heating is operated by pressing the button.

Heated rear window ⇨ 36.

## Demisting and defrosting the windows

Air distribution to .

Set temperature control to warmest level.

Set fan speed to highest level or to **A**.

Cooling on.

Press button .

Climate control system ⇨ 120.

# Transmission

## Manual transmission

Reverse: with the vehicle stationary, wait 3 seconds after depressing clutch pedal and then pull up the button on the selector lever and engage the gear.

If the gear does not engage, set the lever to neutral, release the clutch pedal and depress again; then repeat gear selection.

Manual transmission ⇨ 137.

## Manual transmission automated

**N** = neutral
● = drive
**+** = higher gear
**-** = lower gear
**A** = switch between Automatic and Manual mode
**R** = reverse gear (with selector lever lock)

Manual transmission automated ⇨ 138.

### Automatic transmission

**P** = park
**R** = reverse
**N** = neutral
**D** = drive

The selector lever can only be moved out of **P** or **N** when the ignition is on and the foot brake is depressed (selector lever lock). To engage **P** or **R**, push button on selector lever.

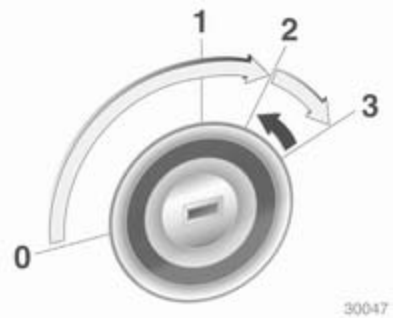
The automatic transmission is available in two versions ⇨ 132.

## Starting off

### Check before starting off

- Tyre pressure and condition ⇨ 184, ⇨ 226.
- Engine oil level and fluid levels ⇨ 157.
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and are operational.
- Proper position of seats, seat belts and mirrors ⇨ 47, ⇨ 53, ⇨ 31.
- Brake function at low speed, particularly if the brakes are wet.

### Starting engine with ignition switch




Turn key to position 1. Move the steering wheel slightly to release the steering wheel lock. Operate clutch and brake, automatic transmission in **P** or **N**, do not accelerate; for diesel engines, turn the key to position 2 for preheating and wait until control indicator ⟅ goes out; turn key to position 3 and release key when engine is running.

### Starting engine with Start/Stop button

The electronic key must be inside the vehicle. Operate clutch and brake, automatic transmission in **P** or **N**, do not accelerate, for diesel engines; press the button briefly to start preheating, move the steering wheel slightly to release the steering wheel lock, wait until control indicator goes out and then press button for 1 second and release when the engine is running.

Open&Start system ⇨ 21.

## Parking

- Always apply the parking brake without pressing the release button. Apply as firmly as possible on a downhill slope or uphill slope. Depress the foot brake at the same time to reduce operating force.
- Switch off the engine. Turn the ignition key to position 0 and remove it or, with the vehicle stationary, press the Start/Stop button and open the driver's door. Turn the steering wheel until the steering wheel lock is felt to engage.

  For vehicles with automatic transmission, the key can only be removed when the selector lever is in the **P** position. If **P** is not engaged or the parking brake is not applied, "P" flashes for a few seconds in the transmission display.
- If the vehicle is on a level surface or uphill slope, engage first gear or set the selector lever to **P** before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the selector lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Lock the vehicle and activate the anti-theft alarm system with button on the radio remote control or with the sensor in a front door handle.

  To activate the anti-theft locking system, press button twice or touch the sensor in a front door handle twice.
- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- On vehicles with manual transmission automated, control indicator flashes for a few seconds after the ignition is switched off if the parking brake has not been applied ⇨ 105.
- Close windows and sunroof or TwinTop.

- The engine cooling fans may run after the engine has been switched off ⇨ 156.
- After running at high engine speeds or with high engine loads, operate the engine briefly at a low load or run in neutral for approx. 30 seconds, before switching off in order to protect the turbocharger.

Keys, locking ⇨ 19, Laying the vehicle up for a long period of time ⇨ 155, TwinTop roof operation ⇨ 39.

# Keys, doors and windows

Keys, locks ..... 19
Doors ..... 27
Vehicle security ..... 28
Exterior mirrors ..... 31
Interior mirrors ..... 33
Windows ..... 33
Roof ..... 37

# Keys, locks

## Keys

### Replacement keys

The key number is specified in the Car Pass or on a detachable tag.

The key number must be quoted when ordering replacement keys as it is a component of the immobiliser system.

Locks ⇨ 197, Open&Start system, electronic key ⇨ 21.

### Lock cylinders

Designed to free-wheel if they are forcefully rotated without the correct key or if the correct key is not fully inserted. To reset, turn cylinder with the correct key until its slot is vertical, remove key and then re-insert it. If the cylinder still free-wheels, turn the key through 180° and repeat operation.

### Key with foldaway key section

Press button to extend. To fold the key, first press the button.

## Car Pass

The Car Pass contains security related vehicle data and should therefore be kept in a safe place.

When the car is taken to a workshop, this vehicle data is needed in order to perform certain operations.

## Radio remote control

Used to operate:

- Central locking system
- Anti-theft locking system
- Anti-theft alarm system
- Power windows
- Electric roof on Astra TwinTop

The radio remote control has an approximate range of up to 5 metres. This range can be affected by outside influences. The hazard warning flashers confirm operation.

Handle with care, protect from moisture and high temperatures and avoid unnecessary operation.

### Fault

If the central locking system cannot be operated with the radio remote control, it may be due to the following:

- Range exceeded
- Battery voltage too low
- Frequent, repeated operation of the radio remote control while not in range, which will require re-synchronisation
- Overload of the central locking system by operating at frequent intervals, the power supply is interrupted for a short time
- Interference from higher-power radio waves from other sources

Unlocking ⇨ 24.

### Radio remote control battery replacement

Replace the battery as soon as the range reduces.

Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

**Key with foldaway key section**

Extend the key and open the unit. Replace the battery (battery type CR 2032), paying attention to the installation position. Close the unit and synchronise.

**Key with fixed key section**

Have the battery replaced by a workshop.

### Radio remote control synchronisation

After replacing the battery, unlock the door with the key in the driver's door lock. The radio remote control will be synchronised when you switch on the ignition.

## Memorised settings

Whenever the key is removed from the ignition switch, the following settings are automatically remembered by the key:

- Electronic climate control
- Info-Display
- Infotainment system
- Instrument panel illumination

The saved settings are automatically used next time that key is used for unlocking.

## Open&Start system

Makes operation of the following possible without the use of the mechanical key:

- Central locking system
- Anti-theft locking system
- Anti-theft alarm system
- Power windows
- Ignition and starter

The electronic key simply needs to be in the driver's possession.

Press the **Start/Stop** button. The ignition is switched on. The electronic immobiliser and steering wheel lock are deactivated.

To start the engine press and hold the **Start/Stop** button whilst applying both the brake and clutch pedals.

Automatic transmission: the engine can only be started with the selector lever in **P** or **N**.

The engine and the ignition are switched off by pressing the **Start/Stop** button again. The vehicle must be stationary. The immobiliser is activated at the same time.

If the ignition has been switched off and the vehicle is stationary, the steering wheel lock activates automatically when the driver's door is opened or closed.

Control indicator ⇨ 97.

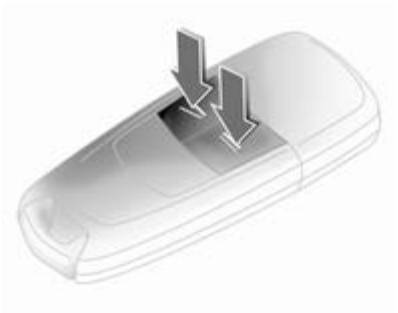
**Note**

Do not put the electronic key in the load compartment or in front of the Info-Display.

The sensor fields in the door handles must be kept clean to ensure unrestricted functionality.

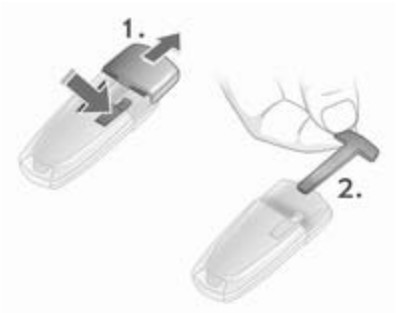
If the battery is discharged, the vehicle must not be towed, tow-started or jump-started as the steering wheel lock cannot be disengaged.

## Radio remote control



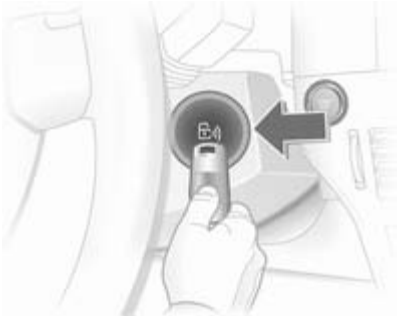
The electronic key likewise has a radio remote control feature.

## Emergency operation




If the radio remote control also fails, the driver's door can be locked or unlocked with the emergency key contained in the electronic key: press locking mechanism and remove the cap by applying light pressure. Push the emergency key outwards over the detent and remove.

The emergency key can only lock or unlock the driver's door. Unlocking the entire vehicle ⇨ 24. On vehicles with anti-theft alarm system, the alarm may be triggered when the vehicle is unlocked. Deactivate the alarm by switching on the ignition.



Hold the electronic key at the marked position and press the **Start/Stop** button.

To switch off the engine, press the **Start/Stop** button for at least 1 second.

Lock the driver's door with the emergency key. Locking the entire vehicle ⇨ 24.

This option is intended for emergencies only. Seek the assistance of a workshop.

## Replacing battery in electronic key

Replace the battery as soon as the system no longer operates properly or the range is reduced. The need for battery replacement is indicated by **InSP3** in the service display or by a check control message in the Info-Display.

Service display ⇨ 90, Info-Display ⇨ 106.

Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

To replace the battery, press the locking mechanism and remove the cap by applying light pressure. Press the cap on the other side outwards.

Replace the battery (battery type CR 2032), noting the installation position. Engage caps.

### Radio remote control synchronisation

The radio remote control synchronises itself automatically during every starting procedure.

### Fault

If the central locking cannot be operated or the engine cannot be started, the cause may be one of the following:

- fault in remote control ⇨ 20
- electronic key out of reception range

To rectify the cause of the fault, change the position of the electronic key.

## Central locking system

Unlocks and locks doors, load compartment and fuel filler flap.

A pull on an interior door handle unlocks the entire vehicle and opens the door.

**Note**
In the event of an accident of a certain severity, the vehicle unlocks automatically.

**Note**
A short time after unlocking with the remote control the doors are locked automatically if no door has been opened.

### Unlocking

**Radio remote control**

Press button ⏤.

**Electronic key**

Pull a door handle or press the button under the tailgate moulding.

The electronic key must be outside the vehicle, within a range of approximately 1 metre.

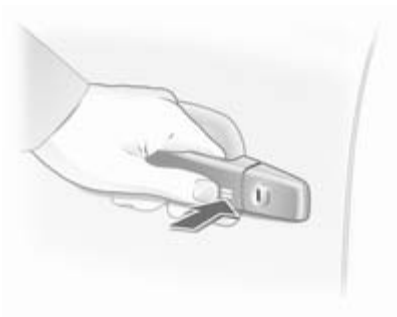
## Locking

Close doors, load compartment and fuel filler flap. If the driver's door is not closed properly, the central locking system will not work.

**Radio remote control**

Press button ⚌.

**Electronic key**



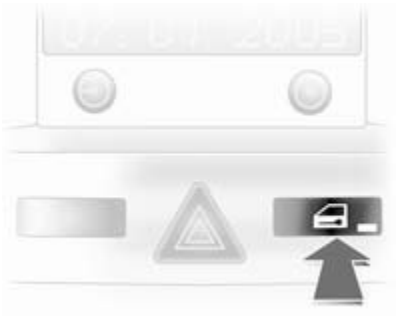
Touch the sensor field in the door handle of one of the front doors.

The electronic key must be outside the vehicle, within a range of approximately 1 metre. The other electronic key must not be inside the vehicle.

2 seconds must pass before the vehicle can be unlocked. Within this time, it is possible to check that the vehicle is locked.

**Note**
The vehicle is not automatically locked.

## Central locking button



Press the button: the doors are locked or unlocked.

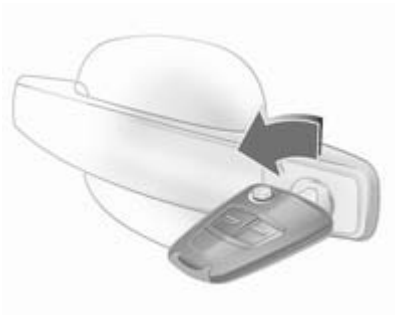
The LED in the button illuminates for approx. 2 minutes after locking with the radio remote control.

If the doors are locked from the inside whilst driving, the LED remains lit.

If the key is in the ignition switch, locking is only possible if all doors are closed.

## Fault in remote control or Open&Start system

### Unlocking



Turn key or emergency key ⇨ 21 in the driver's door lock as far as it will go. The entire vehicle is unlocked when the driver's door is opened.

For Astra TwinTop with open roof - after opening the driver's door, press the central locking button . The vehicle will then be unlocked, provided the anti-theft locking system is not engaged. Switch on the ignition to deactivate the anti-theft alarm system. Open&Start system ⇨ 21.

### Locking

Close the driver's door, open the passenger door, press central locking button . The vehicle is locked. Close the passenger door.

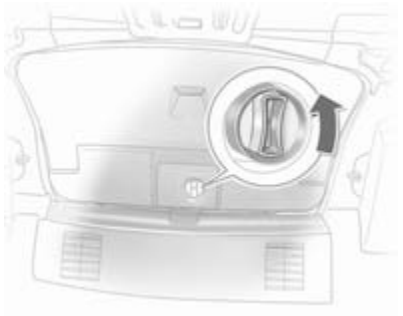
## Fault in central locking system

### Unlocking

Turn key or emergency key ⇨ 21 in the driver's door lock as far as it will go. The other doors can be opened by using the interior handle (not possible if the anti-theft locking system is active). The load compartment and fuel filler flap remain locked. To deactivate the anti-theft locking system, switch on the ignition ⇨ 29.

### Manual unlocking of boot lid

Folding the rear seat backrests ⇨ 50.



From the interior, turn the rotary knob on the inside of the boot lid anticlockwise, this unlocks the boot lid and opens it slightly.

### Locking

Insert key or emergency key ⇨ 21 into opening above lock on inside of door and operate lock by pressing until it clicks. Then close the door. The procedure must be carried out for each door. The driver's door can also be locked from the outside with the key. The fuel filler flap and tailgate/ boot lid cannot be locked.

## Child locks

**⚠Warning**

Use the child locks whenever children are occupying the rear seats.

Using a key or suitable screwdriver, turn button on rear door lock to the horizontal position: door cannot be opened from inside.

# Doors

## Load compartment

### Opening

Push the button under the tailgate moulding.

**⚠Warning**

Do not drive with the tailgate open or ajar, e.g. when transporting bulky objects, as toxic exhaust gases could enter the vehicle.

**Note**
The installation of certain heavy accessories onto the tailgate may affect its ability to remain open.

Central locking system ⇨ 24

### Closing

Use the interior handle.

Do not press the button under the moulding while closing as this will unlock it again.

Close boot lid. The closed boot lid is always locked. To lock the doors, press button 〓 on the remote control.

# Vehicle security

## Anti-theft locking system

**⚠Warning**

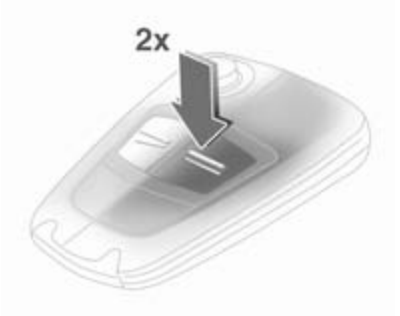
Do not use the system if there are people in the vehicle! The doors cannot be unlocked from the inside.

The system deadlocks all doors. All doors must be closed or the system cannot be activated.

If the ignition was on, the driver's door must be opened and closed once so that the vehicle can be secured.

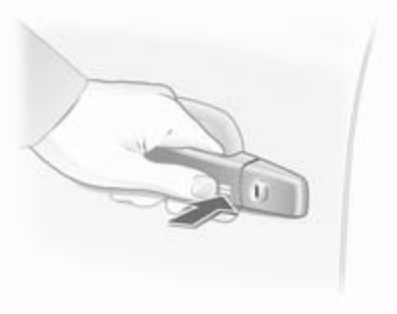
Unlocking the vehicle disables the mechanical anti-theft locking system. This is not possible with the central locking button.

### Activating with the radio remote control




Press 〓 twice within 15 seconds.

### Activating with the electronic key



Touch the sensor field in the front door handle twice within 15 seconds.

The electronic key must be outside the vehicle, within a range of approx. 1 metre.

## Anti-theft alarm system

The anti-theft alarm system is operated in conjunction with the central locking system.

It monitors:

- Doors, load compartment, bonnet,
- Passenger compartment,
- Vehicle inclination, e.g. if it is raised,
- Ignition.

Unlocking the vehicle deactivates the anti-theft alarm system.

**Note**
Changes to the vehicle interior, such as the use of seat covers, could impair the function of passenger compartment monitoring.

### Activation without monitoring of passenger compartment and vehicle inclination

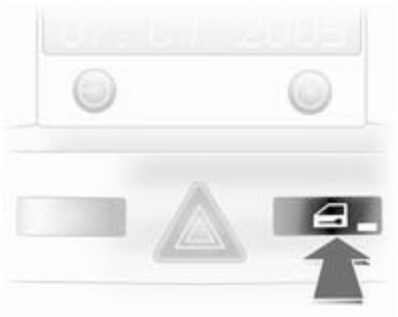
Switch off the monitoring of passenger compartment and vehicle inclination, when people or animals are being left in the vehicle, because of high volume ultrasonic signals, movements triggering the alarm and when the vehicle is on a ferry or train.

1. Close load compartment and bonnet
2. Press button ⓘ. The LED in button 🚘 flashes for maximum 10 seconds

3. Close doors
4. Activate the anti-theft alarm system. The LED illuminates. After approx. 10 seconds, the system is armed. The LED flashes until the system is deactivated

For Astra TwinTop, passenger compartment monitoring is deactivated if the roof is open to prevent false alarms.

### Light-emitting diode (LED)



During the first 10 seconds of anti-theft alarm system activation:

| | | |
|---|---|---|
| LED illuminates | = | Test, ignition delay |
| LED flashes quickly | = | Door, load compartment or bonnet open, or system fault |

After the first 10 seconds of anti-theft alarm system activation:

| | | |
|---|---|---|
| LED flashes slowly | = | System active |
| LED comes on for approx. 1 second | = | Switch off function |

Seek the assistance of a workshop in the event of faults.

### Alarm

When triggered, the alarm gives off an acoustic signal (horn) and a visual signal (hazard warning flashers). The number and duration of which are stipulated by legislation.

The alarm siren can be silenced by pressing a button of the radio remote control or by switching on the ignition. The anti-theft alarm system is deactivated at the same time.

If the vehicle's battery is to be disconnected (e.g. for maintenance work), the alarm siren must be deactivated as follows: switch the ignition on then off, then disconnect the vehicle's battery within 15 seconds.

## Immobiliser

The system checks whether the vehicle is allowed to start with the key being used. If the transponder in the key is recognised, the engine can be started.

The electronic immobiliser activates itself automatically after the key has been removed from the ignition switch or when the engine is switched off by pressing the **Start/Stop** button.

Control indicator ⇨ 93.

**Note**
The immobiliser does not lock the doors. You should always lock the vehicle after leaving it and switch on the anti-theft alarm system ⇨ 24, ⇨ 29.

# Exterior mirrors

## Convex shape

The convex exterior mirror contains an aspherical area and reduces blind spots. The shape of the mirror makes objects appear smaller, which will affect the ability to estimate distances.

## Manual adjustment

Adjust mirrors by swivelling lever in required direction.

## Electric adjustment

First select the relevant exterior mirror then swivel the control to adjust.

## Folding

For pedestrian safety, the exterior mirrors will swing out of their normal mounting position if they are struck with sufficient force. Reposition the mirror by applying slight pressure to the mirror housing.

### Manual folding

The exterior mirrors can be folded in by pressing gently on the outer edge of the housing.

## Electric folding

Press the button and both exterior mirrors will fold.

Press button again - both exterior mirrors return to their original position.

If an electrically folded mirror is manually extended, pressing the button will only electrically extend the other mirror.

## Heated

Operated by pressing the button.

Heating functions with the engine running and is switched off automatically after a short time.

# Interior mirrors

## Manual anti-dazzle

To reduce dazzle, adjust the lever on the underside of the mirror housing.

## Automatic anti-dazzle

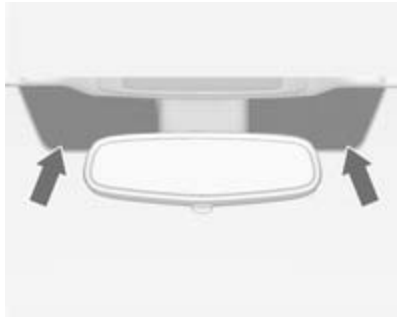
Dazzle from following vehicles at night is automatically reduced.

# Windows

## Windscreen

### Heat-reflecting windscreen

The heat-reflecting windscreen has a coating which reflects solar radiation. Also data signals, e.g. from toll stations, might be reflected.



The marked areas of the windscreen behind the interior mirror are not covered with the coating. Devices for electronic data recording and fee

payment must be attached in these areas. Otherwise data recording malfunctions may occur.

## Power windows

**⚠Warning**

Take care when operating the power windows. Risk of injury, particularly to children.

If there are children on the rear seats, switch on the child safety system for the electric windows.

Keep a close watch on the windows when closing them. Ensure that nothing becomes trapped in them as they move.

Power windows can be operated

- with ignition on
- within 5 minutes of switching ignition off
- within 5 minutes of switching ignition key to position 1

After switching off the ignition, the standby feature ceases when the driver's door is opened.

Operate the control to open or close the window.

For vehicles with automatic feature pull or press the switch again to stop window movement.

Astra TwinTop: when a door is opened the window opens slightly and closes automatically when the door is closed.

### Safety function

If the window glass encounters resistance above the middle of the window during automatic closing, it is immediately stopped and opened again.

In the event of closing difficulties due to frost or the like, operate the switch several times to close the window in stages.

### Central switch for electric windows, Astra TwinTop

Press [4] or [4] to open or close all windows.

## Child safety system for rear windows

Switch can be used to activate or deactivate the switches in the rear doors.

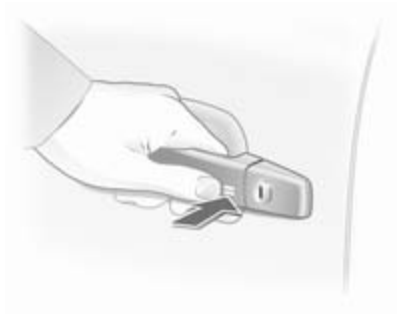
## Operating windows from outside

The windows can be operated remotely from outside the vehicle.

### Radio remote control

Press or until all windows have opened or closed.

### Open&Start system



To close, touch the sensor field in the door handle until all windows are completely closed.

The electronic key must be outside the vehicle, within a range of approx. 1 metre.

## Overload

If the windows are repeatedly operated within short intervals, the window operation is disabled for some time.

### Fault

If the windows cannot be opened or closed automatically, activate the window electronics as follows:

1. Close doors
2. Switch on ignition
3. Close the window completely and operate the button for a further 5 seconds
4. Open the window completely and operate the button for a further 1 second
5. Repeat for each window

## Heated rear window

Operated by pressing the button.

Heating functions with the engine running and is switched off automatically after a short time.

Astra TwinTop: The heated rear window and heated exterior mirrors are deactivated when the roof is open.

Depending on the engine type, the heated rear window comes on automatically when the diesel particle filter is being cleaned.

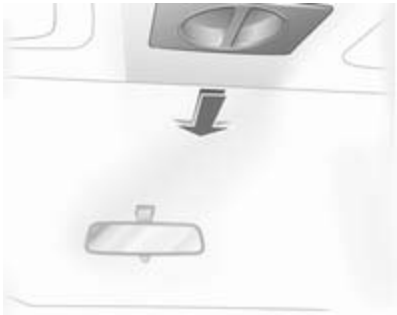
## Sun visors

The sun visors can be folded down or swivelled to the side to prevent dazzling.

If the sun visors have integral mirrors, the mirror covers should be closed when driving.

### Panoramic windscreen

To open roof lining: Turn handle to the right and move roof lining rearward to a suitable position.



To close roof lining: Move forward to a suitable position. When moved all the way forward, the roof lining engages in position.

**Note**
Close the sun visors before sliding the roof lining.

# Roof

## Sunroof

**⚠Warning**

Take care when operating the sunroof. Risk of injury, particularly to children.

Keep a close watch on the movable parts when operating them. Ensure that nothing becomes trapped in them as they move.

Sunroof can be operated with ignition on.

Operated via a rocker switch in the roof console.

Press the button briefly for activation in steps. Hold down the button for longer for automatic opening.

### Raise

With the sunroof closed, press ⁕. The sunroof is raised at the rear.

### Open

Press ⁕ again with the sunroof in the raised position. The sunroof opens automatically until it reaches its end position.

| Caution |
| --- |
| When using a roof rack, check the free movement of the sunroof in order to avoid damage. It is only permitted to raise the sunroof. |

**Note**
If the top of the roof is wet, tilt sunroof, allow water to run off and then open sunroof.

Do not affix any stickers to sunroof.

## Close

Hold down ▢ until the sunroof is completely closed.

For safety reasons, the roof closes from its open position to approx. 20 cm. Hold ▢ depressed to close completely.

## Sunblind

The sunblind is power operated.

The sunblind opens when the sunroof opens.

Close or open the sunblind by pressing button ▤ or ▤.

Hold ▤ depressed to close completely.

## Overload

If the system is overloaded, the power supply is automatically cut off for a short time.

## Initialising the sunroof

If the sunroof and sunblind cannot be operated (e.g. after disconnecting the vehicle battery), activate the electronics as follows:

1. Switch on ignition
2. Close sunroof and hold button ▢ depressed at least 10 seconds
3. Close sunblind and hold button ▤ depressed at least 10 seconds

## Retractable hardtop

**⚠Warning**

Take care when operating the convertible hardtop. Risk of injury. Monitor the action zone above, to the side and to the rear of the vehicle during roof operation.

Make sure that nothing could become pinched. Make sure no one is in the action zone of the roof or boot lid during roof operation. Risk of injury.

Check the amount height, length and width of available space before operating the roof, e. g. in a garage, parking garage or when a bicycle rack is fitted.

Vehicle passengers should be informed accordingly.

Before leaving the vehicle, remove the ignition key in order to prevent unauthorised operation of the windows and sunroof.

Stand-by with key in ignition switch from position 1, or for Open&Start-System switch on ignition.

Requirements:

- Vehicle is stationary or driving no more than 18 mph
- Load compartment blind is closed and engaged ⇨ 70
- Boot lid is closed

If any of these requirements are not fulfilled, a warning buzzer sounds when the switch is actuated and the roof does not open or close.

### Open

There must be no objects in front of the rear window or in the pivot area of the roof and boot lid.

Hold button in the roof console depressed until the roof is completely open and the boot lid is closed.

An acoustic signal sounds at the end of the opening procedure.

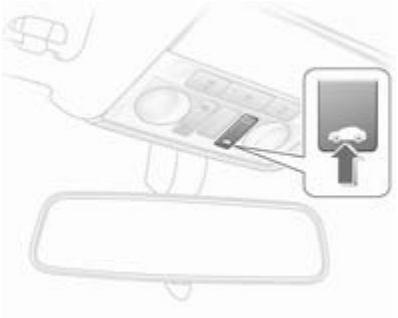
The door windows are opened slightly before the roof is opened. If button is pressed again after the acoustic signal sounds, the door windows will close.

#### Open with remote control

With vehicle stationary unlock the vehicle. Press button again and keep pressed until the roof has opened fully and the boot lid has closed.

During operation with the remote control, the door windows are opened completely.

## Close



Hold button in the roof console depressed until the roof and boot lid are completely closed.

An acoustic signal sounds at the end of the closing procedure.

The door windows are opened slightly before the roof is closed. If button is pressed again after the acoustic signal sounds, the door windows will close.

### Close with remote control

With vehicle stationary, lock the vehicle. Press button again and keep pressed until the roof and boot lid have closed completely.

### Note

- Do not open the load compartment until the acoustic signal indicating the end of the roof opening or closing procedure has sounded.
- The load compartment blind must always be closed during roof operation.
- There must be no one and no objects at the covers behind the rear head restraints.
- The roof can only be operated at temperatures above -20 °C. If the temperature is below this limit, a gong will sound three times when roof operation is requested.
- Frequent operation of the roof with the engine off discharges the battery.
- Repeated operation of the roof without breaks can cause overloading and therefore malfunctions.
- The roof can be held in an intermediate position for 9 minutes to facilitate cleaning of roof spaces. This is done by disengaging the actuation switch. One minute before the end of this period, a continuous buzzer sounds as a warning that the hold period is almost over and the roof could start to move.

- Activating the roof on uneven ground can lead to malfunctions and damage.
- To prevent and remedy squeaking noises of the roof seals a special maintenance kit is available at your Vauxhall Authorised Repairer. It is recommended to apply this product once a year for prevention.

## Fault

The automatic drive of the roof is only operational if the roof is in the proper open or closed position.

Check if:

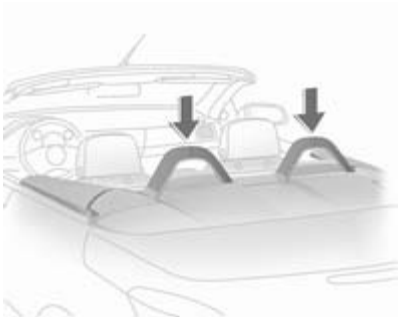
- Load compartment blind is engaged in closed position
- Boot lid is completely closed
- Outside temperature is above -20 °C
- There is sufficient battery voltage
- There is a system overload

If the automatic drive is not operational, two persons are required to manually close the roof. See the accompanying instructions for Astra TwinTop. Professional assistance is recommended.

## Rollover protection system

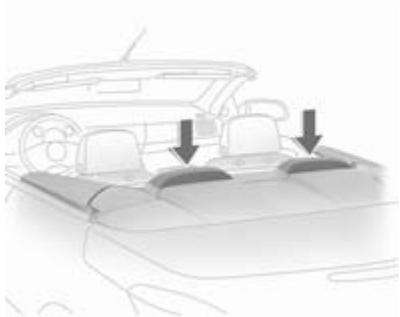
The Astra TwinTop is equipped with rollover protection with reinforced windscreen frame and anti-roll bars behind the rear seat head restraints. Depending on the variant, the anti-roll bars are either fixed or deploy automatically in the event of an impact of a certain severity.

### Fixed anti-roll bars



Fixed anti-roll bars are secured to the vehicle bodywork.

### Deployable anti-roll bars



Deployable anti-roll bars are located between the rear head restraints and the boot lid. In the event of a rollover, head-on collision or side impact, the anti-roll bars deploy upwards within milliseconds. They also deploy together with the front and side airbag systems.

The system deploys with the roof open or closed.

The convertible roof must not be operated if the anti-roll bars have been deployed. A continuous warning will sound if the switch is actuated.

The airbag control indicator illuminates if the anti-roll bars have been deployed.

**Note**
Do not place any objects on the covers of the anti-roll bars behind the head restraints.

Extended anti-roll bars can be retracted (e.g. in order to close the roof after a collision).

Press the lever between the rods of an anti-roll bar to unlock the system. Push the anti-roll bar all the way down until it engages. Fit the cover.

Repeat the procedure on the other anti-roll bar.

Control indicator will remain illuminated and the anti-roll bars will not deploy in the event of another collision. Seek the assistance of a workshop.

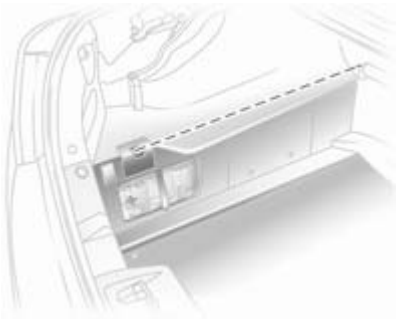
**⚠Warning**

The roof cannot be closed or opened if the anti-roll bars are extended. The anti-roll bars must first be retracted.

After deployment of the anti-roll bar, have the system repaired by a workshop immediately.

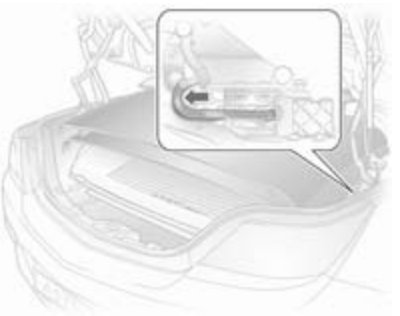
Manually retracted anti-roll bars will not deploy in the event of a collision.

## Load compartment



The roof can only be opened if the load in the load compartment does not exceed the height of the load compartment blind or protrude sideways. The load height must not be exceeded. The load compartment blind must be flat; objects below it must not press it upwards. Otherwise the roof and load may be damaged.

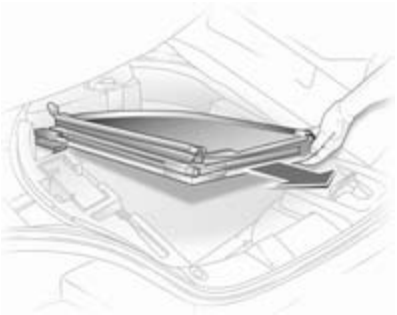
### Blockage of boot lid



To avoid damage to the open roof, boot lid or load, the boot lid can only be closed if the electric load aid is in the lower end position ⇨ 74.

**Failure of electric drive**
Push locking lever forward.

## Wind deflector



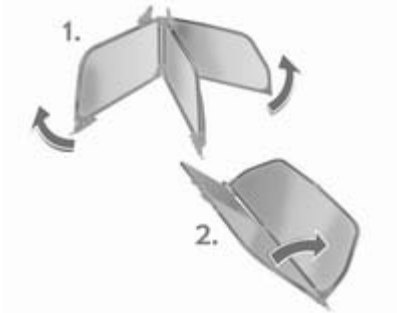
The rear seats cannot be occupied when the wind deflector is in place.

Do not place any objects on the wind deflector.

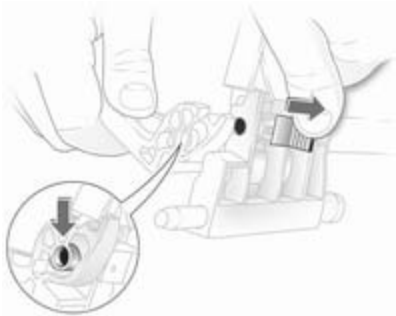
With tyre repair kit, the wind deflector is folded down into a storage compartment in the load compartment below the loading floor cover.

For the version with spare wheel, the wind deflector is folded away in the load compartment.

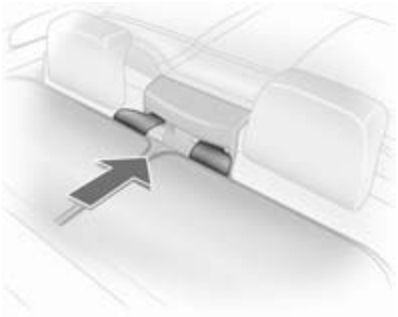
**Fitting**




Expand the collapsed wind deflector.

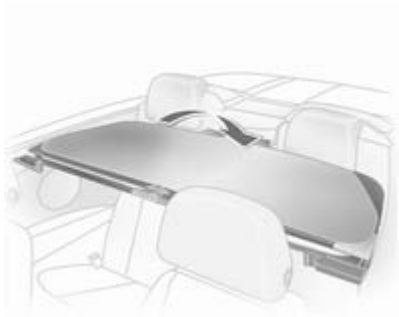


Join together the unfolded ends of the wind deflector: Press in the pin at the slider, guide the hinge over the pin and release the slider so that the pin engages in the hinge.



Insert the guide clips of the wind deflector in the seat belt recesses between the rear head restraints.

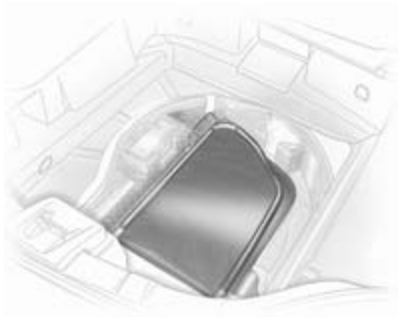
Pull the toggle of the right and left locking pin and turn to lock. Straighten out the wind deflector, turn the toggle back and engage the locking pin in the recess in the side trim.



The wind deflector can be folded back when not in use.

If the wind deflector is folded and the rear seats are unoccupied, the wind deflector can remain mounted in the vehicle when the roof is closed.

**Removing**



Remove in reverse order, wind deflector is completely folded down in the load compartment:

- for tyre repair kit in the compartment below the loading floor cover
- for version with spare wheel , place in load compartment

The wind deflector must never protrude upwards or sideways above the permissible loading height.

# Seats, restraints

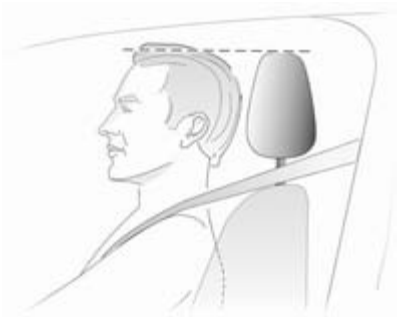
Head restraints ..... 45
Front seats ..... 47
Rear seats ..... 51
Seat belts ..... 52
Airbag system ..... 55
Child restraints ..... 58

# Head restraints

## Position

**⚠Warning**

Only drive with the head restraint set to the proper position.



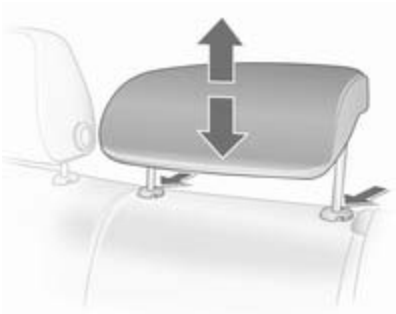
The upper edge of the head restraint should be at upper head level. If this is not possible for extremely tall people, set to highest position, and set to lowest position for small people.

## Adjustment

**Front and rear outboard head restraints**

Press the button, adjust height and engage.

### Rear centre head restraint



Pull the head restraint upwards or press the catch to release and push the head restraint downwards.

### Adjusting the rear head restraints, Astra TwinTop

Pull the head restraint up or press both catches to release and then push the head restraint downwards.

Do not place any objects on the cover behind the head restraints or between the head restraints and the anti-roll bars.

### Removing

Press the catches and pull up the head restraint.

## Active head restraints

In the event of a rear-end impact, the active head restraints tilt slightly forwards. The head is more effectively supported so the risk of whiplash injury is reduced.

Active head restraints are identified by the lettering **ACTIVE** on the head restraint guide sleeves.

**Note**
Approved accessories may only be attached to the front passenger seat head restraint if the seat is not in use.

# Front seats

## Seat position

**⚠ Warning**

Only drive with the seat correctly adjusted.

- Sit with buttocks as far back against the backrest as possible. Adjust the distance between the seat and the pedals so that legs are slightly angled when pressing the pedals. Slide the front passenger seat as far back as possible.
- Sit with shoulders as far back against the backrest as possible. Set the backrest rake so that it is possible to easily reach the steering wheel with arms slightly bent. Maintain contact between shoulders and the backrest when turning the steering wheel. Do not angle the backrest too far back. We recommend a maximum rake of approx. 25°.
- Adjust the steering wheel ⇨ 82.
- Set seat height high enough to have a clear field of vision on all sides and of all display instruments. There should be at least one hand of clearance between head and the roof frame. Your thighs should rest lightly on the seat without pressing into it.
- Adjust the head restraint ⇨ 45.
- Adjust the height of the seat belt ⇨ 53.
- Adjust the thigh support so that there is a space approx. two fingers wide between the edge of the seat and the hollow of the knee.

- Adjust the lumbar support so that it supports the natural shape of the spine.

## Seat adjustment

**⚠Danger**

Do not sit nearer than 25 cm from the steering wheel, to permit safe airbag deployment.

**⚠Warning**

Never adjust seats while driving as they could move uncontrollably.

### Seat positioning

Pull handle, slide seat, release handle.

### Seat backrests

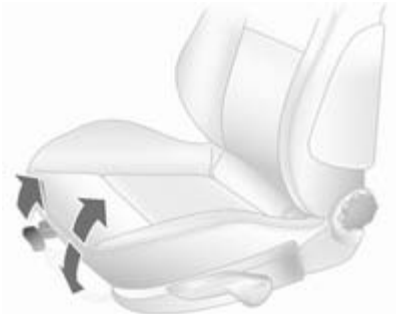
Turn handwheel. Do not lean on backrest when adjusting.

## Seat height

Lever pumping motion

up = seat higher
down = seat lower

## Seat inclination

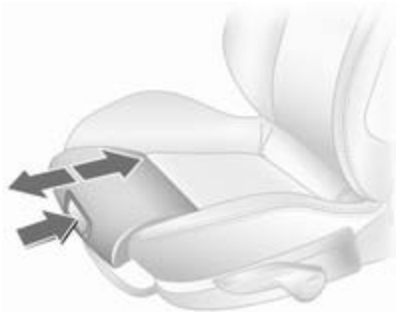


Pull lever, adjust inclination by shifting body weight. Release lever and audibly engage seat in position.

## Lumbar support

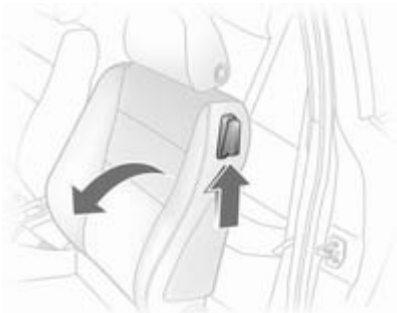
Turn handwheel. Do not lean on backrest when adjusting.

### Adjustable thigh support



Press the button and slide the thigh support.

## Seat folding



Lift release lever and fold backrest forwards. Slide seat forwards.

To restore, slide the seat backwards. If the seat has a memory function it engages in its original position, otherwise engage seat in desired position. Move the backrest back to upright and engage.

Folding the backrest forwards is only possible when the backrest is in an upright position.

Do not operate handwheel to adjust backrest with backrest tilted forward.

In vehicles with a panoramic window: to tilt seats forward, push head restraints down and lift up sun visors.

## Armrest

Push raised armrest backward against resistance and fold down.

The armrest can be moved to different positions in stages by lifting it.

Under the armrest there is a storage compartment.

## Heating

Adjust heating to the desired setting by pressing the button for the respective seat one or more times with the ignition on. The control indicator in the button indicates the setting.

Prolonged use of the highest setting for people with sensitive skin is not recommended.

Seat heating is operational when the engine is running.

# Rear seats

## Armrest

### Hatchback and Estate

Fold down the armrest, pulling the strap obliquely down (45°).

### TwinTop

Pull the armrest by the strap, pivot it down and position on the sit with the flat side up.

The armrest is held in place on the backrest with a retaining strap. To fully remove the armrest, disengage the bracket at the retaining strap.

# Seat belts

The seat belts are locked during heavy acceleration or deceleration of the vehicle holding the occupants in the sitting position. Thereby the risk of injury is considerably reduced.

**⚠Warning**

Fasten seat belt before each trip.

In the event of an accident, people not wearing seat belts endanger their fellow occupants and themselves.

Seat belts are designed to be used by only one person at a time. They are not suitable for people smaller than 150 cm. Child restraint system ⇨ 58.

Periodically check all parts of the belt system for damage, pollution and proper functionality.

Have damaged components replaced. After an accident, have the belts and triggered belt pretensioners replaced by a workshop.

**Note**

Make sure that the belts are not damaged by shoes or sharp-edged objects or trapped. Prevent dirt from getting into the belt retractors.

Seat belt reminder ⇨ 92.

## Belt force limiters

Stress on the body is reduced by the gradual release of the belt during a collision.

## Belt pretensioners

In the event of a head-on or rear-end collision of a certain severity, the front seat belts are tightened.

**⚠Warning**

Incorrect handling (e.g. removal or fitting of belts) can trigger the belt pretensioners.

Deployment of the belt pretensioners is indicated by continuous illumination of control indicator ⇨ 92.

Triggered belt pretensioners must be replaced by a workshop. Belt pretensioners can only be triggered once.

**Note**

Do not affix or install accessories or other objects that may interfere with the operation of the belt pretensioners. Do not make any modifications to belt pretensioner components as this will invalidate the vehicle type approval.

# Three-point seat belt

## Fastening seat belt

Withdraw the belt from the retractor, guide it untwisted across the body and insert the latch plate into the buckle. Tighten the lap belt regularly whilst driving by pulling the shoulder belt.

Seat belt reminder ⇨ 92.

Loose or bulky clothing prevents the belt from fitting snugly. Do not place objects such as handbags or mobile phones between the belt and your body.

**⚠ Warning**

The belt must not rest against hard or fragile objects in the pockets of your clothing.

## Height adjustment

1. Pull belt out slightly.
2. Press button.
3. Adjust height and engage.

Adjust the height so that the belt lies across the shoulder. It must not lie across the throat or upper arm.

Do not adjust while driving.

## Removing seat belt

To release belt, press red button on belt buckle.

## Seat belts on rear seats

Lead seat belts of the outer seats through holders at the side if they are not being used.

The seat belt for the middle seat can only be withdrawn from the retractor if the backrests are upright and are engaged in their retainers.

**TwinTop**

To prevent the seat belts from making flapping noise when the sun roof and/or the windows are open, the seat belts of unoccupied rear seats can be secured behind the armrest.

## Using the seat belt while pregnant

**⚠Warning**

The lap belt must be positioned as low as possible across the pelvis to prevent pressure on the abdomen.

# Airbag system

The airbag system consists of a number of individual systems depending on the scope of equipment.

When triggered the airbag inflates within milliseconds. They also deflate so quickly that it is often unnoticeable during the collision.

**⚠Warning**

If handled improperly the airbag systems can be triggered in an explosive manner.

**Note**
The control electronics of the airbag systems, belt pretensioners and deployable anti-roll bars are located in the centre console area. Do not put any magnetic objects in this area.

Do not stick anything on the airbag covers and do not cover them with other materials.

Each airbag/anti-roll bar is triggered only once. Have deployed airbags/ anti-roll bars replaced by a workshop. Furthermore, it might be necessary to have the steering wheel, the instrument panel, parts of the panelling, the door seals, handles and the seats replaced.

Do not make any modifications to the airbag system/anti-roll bars as this will invalidate the vehicle type approval.

When the airbags inflate, escaping hot gases may cause burns.

Control indicator for airbag systems and anti-roll bars ⇨ 92.

# Front airbag system

The front airbag system consists of one airbag in the steering wheel and one in the instrument panel on the front passenger side. These can be identified by the word **AIRBAG**.

There is also a warning label on the side of the instrument panel, visible when the front passenger door is open.

The front airbag system is triggered in the event of a front-end impact of a certain severity. The ignition needs to be switched on.

The inflated airbags cushion the impact, thereby reducing the risk of injury to the upper body and head of the front seat occupants considerably.

**⚠Warning**

Optimum protection is only provided when the seat is in the proper position ⇨ 47.

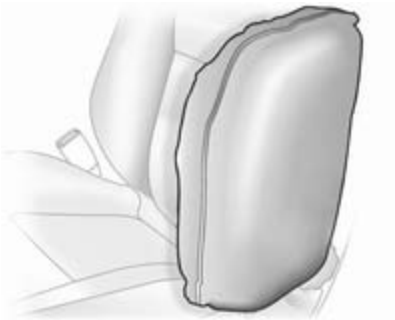
Keep the area in which the airbag inflates clear of obstructions.

Fit the seat belt correctly and engage securely. Only then the airbag is able to protect.

## Side airbag system

The side airbag system consists of an airbag in each front seat backrest. This can be identified by the word **AIRBAG**.

The side airbag system is triggered in the event of a side impact of a certain severity. The ignition needs to be switched on.



The inflated airbags cushion the impact, thereby reducing the risk of injury to the upper body and pelvis in the event of a side-on collision considerably.

**⚠Warning**

Keep the area in which the airbag inflates clear of obstructions.

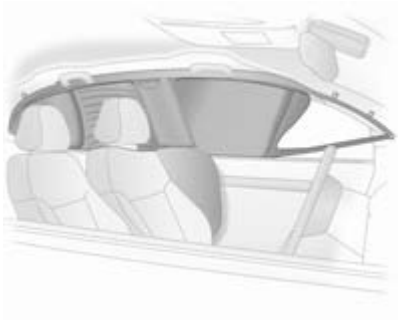
**Note**

Only use protective seat covers that have been approved for the vehicle. Be careful not to cover the airbags.

## Curtain airbag system

The curtain airbag system consists of an airbag in the roof frame on each side. This can be identified by the word **AIRBAG** on the roof pillars.

The curtain airbag system is triggered in the event of a side-on impact of a certain severity. The ignition needs to be switched on.



The inflated airbags cushion the impact, thereby reducing the risk of injury to the head in the event of a side-on impact considerably.

**⚠Warning**

Keep the area in which the airbag inflates clear of obstructions.

The hooks on the handles in the roof frame are only suitable for hanging up light articles of clothing, without coat hangers. Do not keep any items in these clothes.

## Seat occupancy recognition

Identified by a label on the lower panel of the front passenger seat and by control indicator, which illuminates for approx. 4 seconds when the ignition is switched on.

The seat occupancy recognition system deactivates the passenger front and side airbag if the front passenger seat is not occupied or is fitted with a Vauxhall child restraint system with transponders. The curtain airbag system remains activated.

**⚠ Danger**

Only Vauxhall child restraint systems with transponders should be fitted on the front passenger seats. Use of systems without transponders poses a risk of fatal injury.

Control indicator ⇨ 92.

**Note**
Anyone weighing less than 35 kg should only travel on the rear seats.

Do not place any heavy objects on the front passenger seat. Otherwise the seat will register as occupied and the airbag system for the front passenger seat will not be deactivated.

Do not use protective covers or seat cushions on the front passenger seat.

**Note**
On the Astra TwinTop, there may be interference in radio reception of certain frequencies in the medium waveband when the roof is open and the front passenger seat is unoccupied.

# Child restraints

## Child restraint systems

We recommend the Vauxhall child restraint system which is tailored specifically to the vehicle.

When a child restraint system is being used, pay attention to the following usage and installation instructions and also those supplied with the child restraint system.

Always comply with local or national regulations. In some countries, the use of child restraint systems is forbidden on certain seats.

### Selecting the right system

The rear seats are the most convenient location to fasten a child restraint system.

Children should travel facing rearwards in the vehicle as long as possible. This makes sure that the child's backbone, which is still very weak, is under less strain in the event of an accident.

Children under the age of 12 years that are smaller than 150 cm are only allowed to travel in a restraint system that is suitable for the child. Suitable are restraint systems that comply with ECE 44-03 or ECE 44-04. Since a proper position of the belt is rarely possible with a child that is smaller than 150 cm, we strongly advise to use an appropriate child restraint system, even though this might, due to the age of the child, no longer be legally binding.

Ensure that the child restraint system to be installed is compatible with the vehicle type.

Ensure that the mounting location of the child restraint system within the vehicle is correct.

Allow children to enter and exit the vehicle only on the side facing away from the traffic.

When the child restraint system is not in use, secure the seat with a seat belt or remove it from the vehicle.

**Note**

Do not stick anything on the child restraint systems and do not cover them with any other materials.

A child restraint system which has been subjected to stress in an accident must be replaced.

# Child restraint installation locations

## Permissible options for fitting a child restraint system

| Weight and age class | On front passenger seat | On outer rear seats | On centre rear seat[1)] |
|---|---|---|---|
| **Group 0: up to 10 kg** or approx. 10 months<br>**Group 0+: up to 13 kg** or approx. 2 years | B[1], ++ | U, + | U |
| **Group I: 9 to 18 kg** or approx. 8 months to 4 years | B[2], ++ | U, + | U |
| **Group II: 15 to 25 kg** or approx. 3 to 7 years<br>**Group III: 22 to 36 kg** or approx. 6 to 12 years | X | U | U |

B[1] = Limited, only with seat occupancy recognition and Vauxhall child restraint system with transponders.
If the child restraint system is being secured using a three-point seat belt, move seat height adjustment to uppermost position. Move front passenger seat as far back as possible and move front passenger seat belt anchorage point to lowest position.

B[2] = Limited, only with seat occupancy recognition and Vauxhall child restraint system with transponders.
If the child restraint system is being secured using a three-point seat belt, move seat height adjustment to uppermost position. Move front passenger seat as far back as possible so that vehicle safety belt runs from anchorage point towards the front.

U = Universal suitability in conjunction with three-point seat belt.

\+ = Seat available with ISOFIX and Top-tether mounting brackets.

++ = Seat available with ISOFIX mounting brackets.

X = No child restraint system permitted in this weight class.

1) Not allowed on Astra TwinTop.

## Permissible options for fitting an ISOFIX child restraint system

| Weight class | Size class | Fixture | On front passenger seat | On rear outboard seats | On rear centre seat |
|---|---|---|---|---|---|
| Group 0: up to 10 kg | E | ISO/R1 | IL | IL | X |
| Group 0+: up to 13 kg | E | ISO/R1 | IL | IL | X |
| | D | ISO/R2 | IL | IL | X |
| | C | ISO/R3 | X | IL[2)] | X |
| Group I: 9 to 18 kg | D | ISO/R2 | IL | IL | X |
| | C | ISO/R3 | X | IL[2)] | X |
| | B | ISO/F2 | IL | IL, IUF | X |
| | B1 | ISO/F2X | IL | IL, IUF | X |
| | A | ISO/F3 | X | IL, IUF | X |

IL = Suitable for particular ISOFIX restraint systems of the 'specific-vehicle', 'restricted' or 'semi-universal' categories. The ISOFIX restraint system must be approved for the specific vehicle type.
IUF = Suitable for ISOFIX forward-facing child restraint systems of universal category approved for use in this weight class.
X = No ISOFIX child restraint system approved in this weight class.

2) Only on the passenger's side.

## ISOFIX size class and seat device

A – ISO/F3 = Forward-facing child restraint system for children of maximum size in the weight class 9 to 18 kg.
B – ISO/F2 = Forward-facing child restraint system for smaller children in the weight class 9 to 18 kg.
B1 – ISO/F2X = Forward-facing child restraint system for smaller children in the weight class 9 to 18 kg.
C – ISO/R3 = Rear-facing child restraint system for children of maximum size in the weight class up to 13 kg.
D – ISO/R2 = Rear-facing child restraint system for smaller children in the weight class up to 13 kg.
E – ISO/R1 = Rear-facing child restraint system for young children in the weight class up to 13 kg.

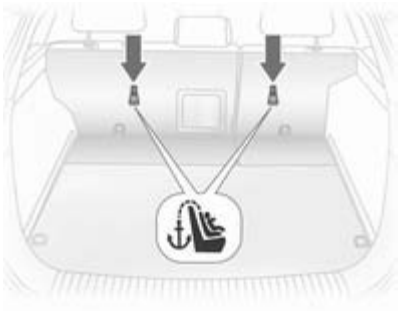
## Isofix child restraint systems

Fasten vehicle-approved ISOFIX child restraint systems to the ISOFIX mounting brackets. Specific vehicle ISOFIX child restraint system positions are marked in the table by IL.

ISOFIX mounting brackets are indicated by a label on the backrest.

## Top-tether child restraint systems

Top-tether fastening eyes are located under a cover marked with the symbol for a child seat. Fold up cover after usage.



In addition to the ISOFIX mounting, fasten the Top-tether strap to the Top-tether fastening eyes. The strap must run between the two guide rods of the head restraint.

ISOFIX child restraint systems of universal category positions are marked in the table by IUF.

## Child restraints with transponders

A label on the child restraint system indicates that it is fitted with transponders.

Vauxhall child restraint systems with transponders are automatically detected if correctly installed to the front passenger seat with seat occupancy recognition.

**Note**
There must be no objects (e.g. plastic sheet or heating mats) between the seat and the child restraint system.

Seat occupancy recognition ⇨ 57.

# Storage

Storage compartments ..... 65
Load compartment ..... 66
Roof rack system ..... 80
Loading information ..... 80

# Storage compartments

## Glovebox

The glovebox features a pen holder and a place to store coins.

The glovebox shelf can be removed: Disengage the shelf by pulling on the front edge.

Refit the shelf by sliding it into the side guide strips and engage it in the rear panel by pushing.

The glovebox should be closed whilst driving.

### Lockable glovebox, Astra TwinTop with Open&Start system

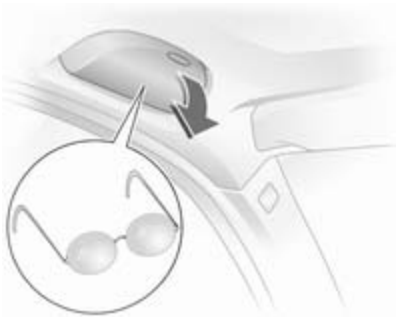
In addition to the electronic key of the Open&Start system, there is a standard key without remote control for the glovebox lock.

## Cupholders

Cupholders are located in the centre console and in the door pockets of the rear doors.

Additional cupholders are located in the fold-down tables on the back of the front seat backrests.

## Sunglasses storage

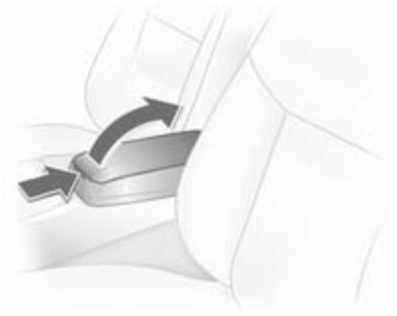


Fold down and open.

Do not use for storing heavy objects.

## Armrest storage

### Storage in the front armrest

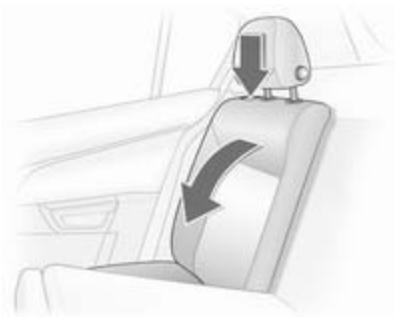


To open, press button and open upper part of armrest.

# Load compartment

### Load compartment extension, Hatchback 3-door / 5-door

#### Folding down rear backrests

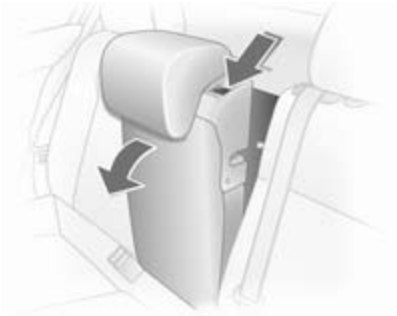


Push head restraints all the way down or remove ⇨ 45.

Slide front seat forward slightly.

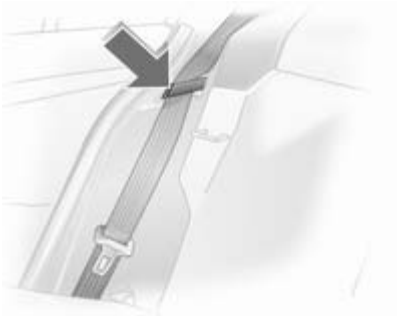
Disengage the backrest (single or split) using the release button on one or both sides and fold it down onto the seat cushion.

### Folding down centre backrests



Push head restraint down as far as possible ⇨ 45.

Disengage backrest using lever and fold onto seat cushion.



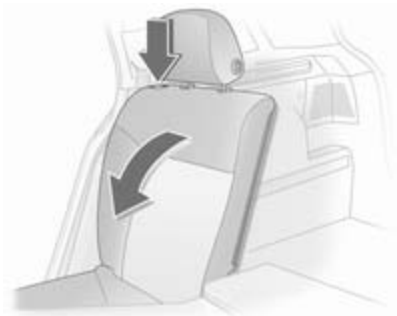
Before restoring backrest to an upright position, guide the seat belt through the belt guides to protect against damage.

Move rear seat backrests upright and allow locking mechanisms to engage audibly.

The three-point seat belt for the centre rear seat can only be pulled from the reel if the backrest is properly engaged.

## Load compartment extension, Estate

### Folding down rear backrests



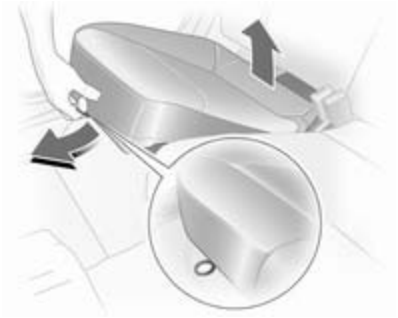
Push head restraints all the way down or remove ⇨ 45.

Unhook hooks of load compartment cover from head restraints ⇨ 70.

Slide front seat forward slightly.

Disengage the backrest (single or split) using the release button on one or both sides and fold it down onto the seat cushion.

**Raise the seat cushion and fold the backrest**



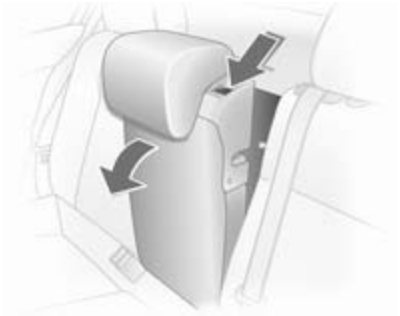
Pull the strap on the seat cushion and lift the rear of the cushion forwards (split or one-piece).

Unhook hooks of load compartment cover from head restraints ⇨ 70.

Remove rear outer head restraints and push centre head restraint all the way down ⇨ 45. Stow the removed head restraints in the cavity below the raised seat cushions.

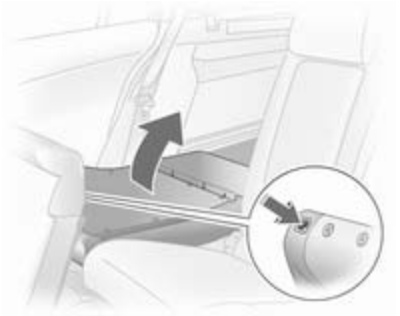
Disengage backrest (one-piece or split) using release button, fold forward and engage.

### Folding down centre backrests



Push head restraint down as far as possible ⇨ 45. Disengage backrest using lever and fold onto seat cushion. If the seat cushion is raised, fold it forward until it engages.

Before restoring backrest to an upright position, guide the seat belt through the belt guides to protect against damage. Press release button and move rear seat backrests upright, ensuring locking mechanisms engage audibly.



With the seat cushions raised: insert head restraints in backrests and adjust ⇨ 45. Fold back seat cushions, making sure the belt buckles are properly positioned.

Attach hooks of load compartment cover to head restraints ⇨ 70.

The three-point seat belt for the centre rear seat can only be pulled from the reel if the backrest is properly engaged.

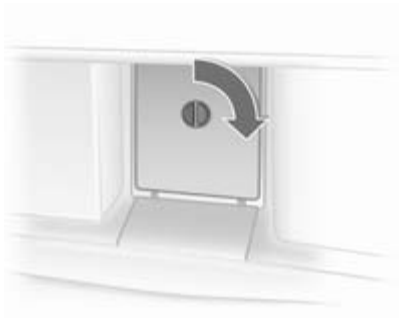
## Load compartment extension, TwinTop

### Loading area between rear seats

Pull out the armrest by the strap.

The armrest is held in place on the backrest with a retaining strap. To fully remove the armrest, disengage the bracket at the retaining strap.

Pull the handle and fold down the cover.



The cover behind the armrest can be locked from load compartment:

horizontal position = locked
vertical position = unlocked

## Stowage in the load compartment, Estate

There is a stowage compartment at the right side of the load compartment.

The fuse box is on the left side behind the cover in the load compartment side panelling ⇨ 179

Cargo box ⇨ 72.

The tyre repair kit is on the right side behind the cover ⇨ 188.

# Load compartment cover

## Hatchback 3-door / 5-door

### Removing

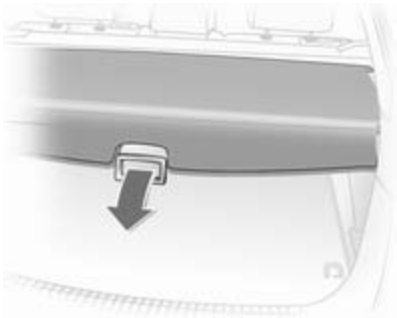
Unhook retaining straps from tailgate. Pull cover from the side guides.

### Fitting

Engage cover in side guides and fold downwards. Attach retaining straps to tailgate.

## Estate

Do not place any heavy or sharp-edged objects on the load compartment cover.



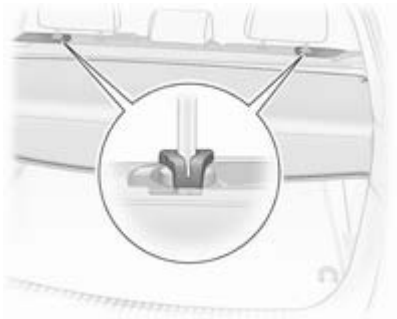
### Opening

Press handle on load compartment cover rearwards; the cover automatically engages in its end position.

### Closing

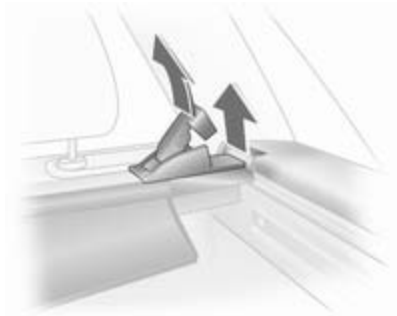
Remove load compartment cover from side brackets. It rolls up automatically.

Pull the cover towards the rear using the handle and engage it in the retainers at the sides.



To cover the gap between the load compartment cover and the rear backrests, there is a cover on the cartridge. Attach the two hooks of the cover to the head restraint guide rods. If the safety net is mounted, run the hooks through the net mesh.

### Removing



Open the load compartment cover and detach the hooks from the head restraints.

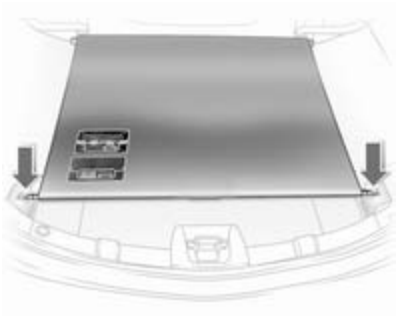
Pull the release lever. Lift right side of cover first, then pull left side out of recess.

### Fitting

Insert the left side of the load compartment cover in the recess, pull the release lever, insert the right side of the load compartment cover and engage.

Attach the hooks on the head restraints.

## TwinTop



**Opening**
Release load compartment blind from recesses on left and right, blind rolls up automatically.

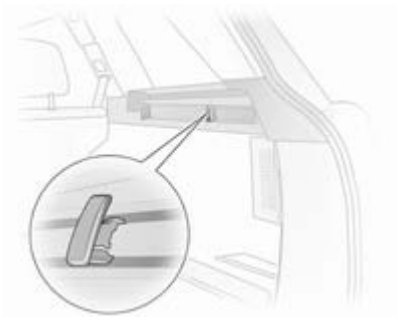
**Closing**
Pull the cover towards the rear using the handle and engage it in the retainers at the sides.

Do not place any objects on the load compartment cover.

There must be no objects outside of or on top of the cover when the roof is open or in the process of opening.

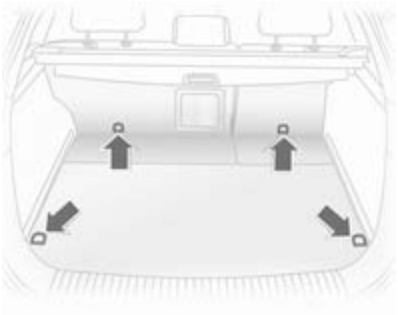
The roof can only be operated with the blind engaged in the recess.

## Load rails and hooks



On Estates, install the hooks in the desired position in the rails: insert the hook in the upper groove on the rail and press in the lower groove.

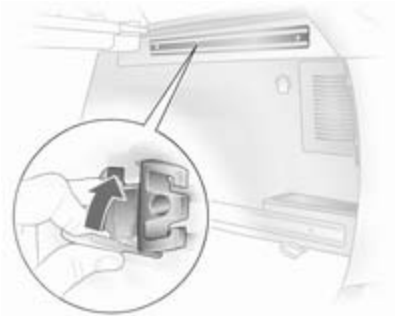
## Lashing eyes



The lashing eyes are designed to secure items against slippage, e.g. using lashing straps, luggage net or safety net.

## Cargo management system

The FlexOrganizer is a flexible system for dividing the load compartment or securing loads in an Estate.

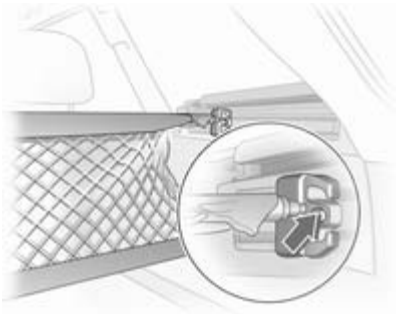


The system consists of

- adapters
- variable partition net
- mesh pockets
- hooks

The components are fitted in two rails in the side panels using adapters and hooks. The partitioning net can also be fitted directly in front of the tailgate.

## Variable partition net



Insert an adapter into each rail: fold open the handle plate, insert adapter into upper and lower groove of rail and move to required position. Turn handle plate upwards to lock the adapter. The rods of the net must be extended before inserting into the adapters: pull out all of the end pieces and lock by rotating clockwise.

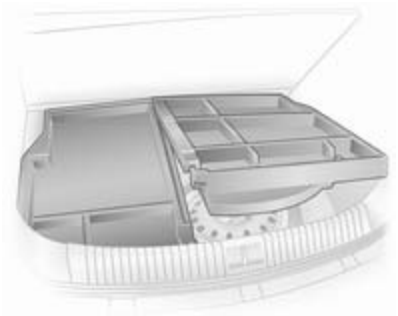
To install, push rods together a little and insert into the relevant openings in the adapters. The longer rod must be inserted into the upper adapter.

To remove, press the net rod together and remove from the adapters. Fold open the adapter handle plate, disengage from lower groove and then from upper groove.

## Hooks and net pocket

Net pocket can be suspended from the luggage hooks.

## Cargo box



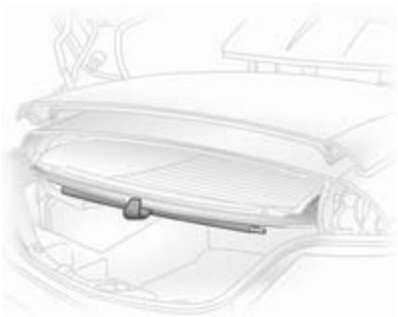
Foldable box under the floor cover used to divide the load compartment.

The cargo box may only be loaded when the backrests are engaged in an upright position.

To remove the cargo box floor cover, remove first the right half then the left half. For models with towing equipment, first release the coupling ball bar fixing strap and thread this through the eye.

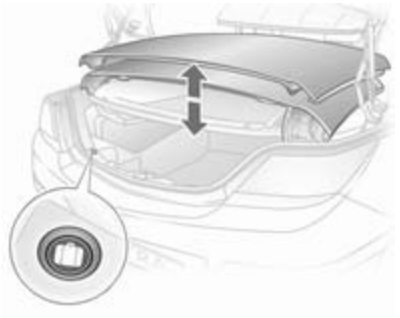
Install in reverse order.

## Loading assist

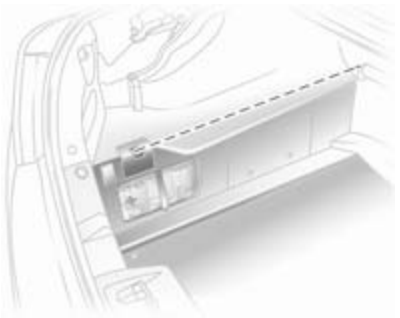


On TwinTop: The loading aid Easy Load makes it possible to comfortably load the load compartment when the roof is open. Pressing the loading aid button will raise the roof folded up in the load compartment 25 cm. This enlarges the load opening of the load compartment.

- Open the boot lid
- Unhook load compartment blind and attach to rear window frame with holder



- Briefly press loading aid button: The folded roof is raised. The roof remains in this end position for approx. 9 minutes



- Observe marked maximum load height
- Suspend the load compartment blind from the rear window frame and engage in the recesses. The load compartment blind must be flat; objects underneath it must not push it upwards.
- Briefly press loading aid button: The folded roof is lowered.
- Close the boot lid only after the confirmation signal has sounded. Otherwise the roof could be damaged.

**⚠Warning**

Take care when operating the loading aid. Risk of injury.

Make sure that nothing can become trapped.

Make sure no one is in the action zone during operation. Risk of injury.

This is especially important for children. Inform passengers accordingly.

**Note**

- Do not place objects on or near the load compartment blind
- The folded roof can only be lowered when the blind is closed. Otherwise, a warning buzzer will sound three times
- The movement of the tilted roof can be stopped by pressing the loading aid button and another longer press reverses the direction of the movement
- A confirmation buzzer is heard in the upper and lower roof end positions when the roof is tilted
- Only close the tailgate once the confirmation signal has sounded to indicate that the loading aid is in its lower end position
- If the loading aid is not in its lower end position when the boot lid is closed, a warning tone sounds or the tailgate is blocked mechanically ⇨ 39
- Do not touch moving parts
- One minute before the end of the hold time for the raised loading aid, a warning buzzer will sound to remind you to lower the roof
- The loading aid is only operable when the vehicle is unlocked
- Frequent operation of the loading aid with the engine off discharges the battery
- Repeated operation of the loading aid can cause malfunctions

## Safety net

The safety net is available on the Estate and can be installed behind the rear seats or, if the rear seat backrests are folded and the seat cushions raised, behind the front seats.

Passengers must not be transported behind the safety net.

## Installation

There are two installation openings in the roof frame: suspend and engage rod of net at one side, compress rod and suspend and engage at other side.

### Behind the rear seats

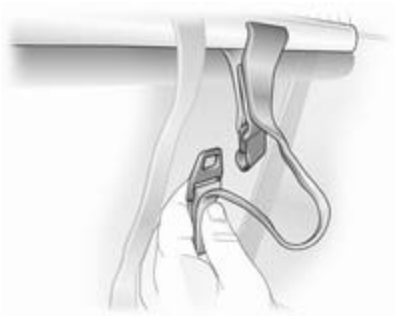
Adjust strap length on safety net by attaching the upper hook to the eye of the strap and attach to eyes in the right and left of the floor.

### Behind front seats

Adjust strap length on safety net by attaching the upper hook to the eye of the strap and attach to eyes in the right and left of the floor.

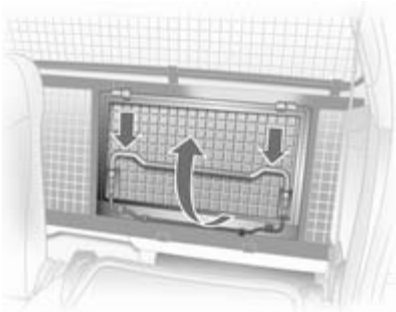
Remove rear outer head restraints and fold backrests forward.

### Removal



Tilt length adjuster of the net tensioning belt upwards and detach the belt. Unhook the safety net rods from the brackets in the roof frame. Roll up the net and secure with a strap.

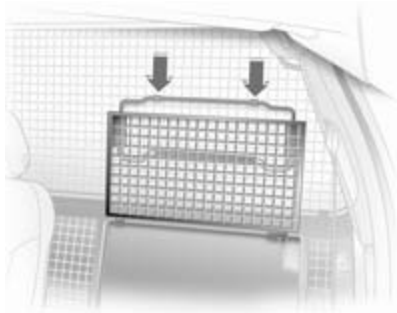
## Load compartment grille



To transport long objects, part of the load compartment grille behind the passenger seat can be opened:

Release passenger seat back and fold forward.

Press bracket down and fold grille section up.



Lock grille in open position.

To close the grille section from the open position, push bracket down, fold down grille and engage.

Check that the closed grille is properly locked.

## Folding tray

Located in the front seat backrests.

Open by pulling upward until it engages.

Fold away by pressing down past the resistance point.

Do not place any heavy objects on the folding tray.

## Warning triangle

### Hatchback 3-door / 5-door, TwinTop

Store warning triangle in rear load compartment wall: first fit warning triangle into recess on left and then insert in guide on right.

To remove the warning triangle, lift to the right and pull out to the right.

For vehicles with cargo box: Lift the warning triangle with the right half of the cargo box. Pull out the warning triangle to the right.

### Estate, Van

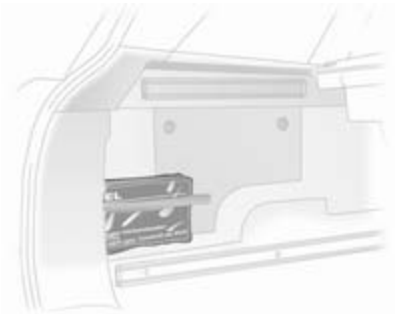
Stow the warning triangle in the space in the tailgate and fasten with the right and left straps.

## First aid kit

### Hatchback 3-door / 5-door

Secure the first-aid kit to the right load compartment wall using the retaining strap.

## Estate

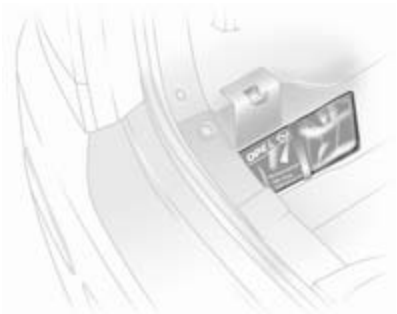


Fasten the first-aid kit to the left load compartment wall with a retaining strap.

## Van

Place first aid kit in stowage compartment behind the driver's seat. To open the cover, press the locking tab.

## TwinTop



Store the first-aid kit in the recess behind the strap in the left load compartment wall.

# Roof rack system

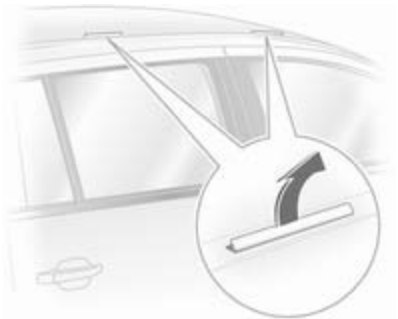
## Roof rack

For safety reasons and to avoid damage to the roof, the vehicle approved roof rack system is recommended.

Roof loads are not permitted on the Astra TwinTop.

Follow the installation instructions and remove the roof rack when not in use.

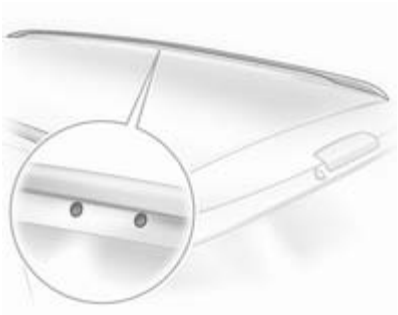
### Version without roof railing



Lift the covers from the fitting openings.

Fasten the roof rack at the fastening points.

### Version with roof railing



To fasten the roof rack, insert the mounting bolts in the holes indicated in the figure.

# Loading information

- Heavy objects in the load compartment should be placed against the seat backrests. Ensure the backrests are securely engaged. If objects can be stacked, the heavier objects should be placed at the bottom.
- Secure objects with lashing straps attached to lashing eyes ⇨ 72.
- Secure loose objects in load compartment to prevent sliding.

- When transporting objects in the load compartment, the backrests of the rear seats must not be angled forward.
- Do not allow the load to protrude above the upper edge of the backrests.
- Do not place any objects on the load compartment cover or the instrument panel.
- The load must not obstruct the operation of the pedals, parking brake and gear selector, or hinder the freedom of movement of the driver. Do not place any unsecured objects in the interior.
- Do not drive with an open load compartment.
- Estate: fit safety net when objects are being transported in the load compartment. Close load compartment cover.
- Astra TwinTop: pay attention to maximum loading height with roof open. Do not place objects on top of or next to the load compartment blind, on the cover of the deployable anti-roll bars or behind the rear head restraints.
- The payload is the difference between the permitted gross vehicle weight (see identification plate ⇨ 206) and the EC kerb weight.

  To calculate the EC kerb weight, enter the data for your vehicle in the Weights table at the front of this manual.

  The EC kerb weight includes weights for the driver (68 kg), luggage (7 kg) and all fluids (tank 90 % full).

  Optional equipment and accessories increase the kerb weight.
- Driving with a roof load increases the sensitivity of the vehicle to cross-winds and has a detrimental effect on vehicle handling due to the vehicle's higher centre of gravity. Distribute the load evenly and secure it properly with retaining straps. Adjust the tyre pressure and vehicle speed according to the load conditions. Check and retighten the straps frequently.

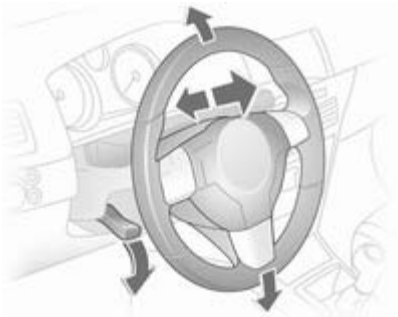
  The permissible roof load is 75 kg and 100 kg for Estate with roof railing. The roof load is the combined weight of the roof rack and the load.

# Instruments and controls

Controls ..... 82
Warning lights, gauges and indicators ..... 89
Information displays ..... 98
Vehicle messages ..... 105
Trip computer ..... 108

# Controls

## Steering wheel adjustment



Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked.

Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

## Steering wheel controls

The Infotainment system and the Info-Display can be operated via the controls on the steering wheel.

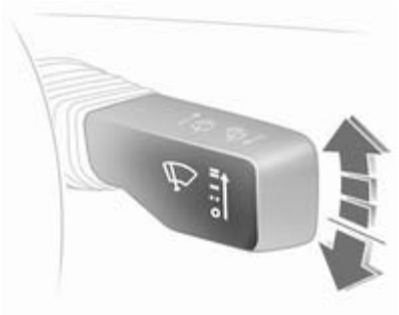
Further information is available in the Infotainment system manual.

## Horn

Press .

## Windscreen wiper/washer

### Windscreen wiper



The lever always springs back to its original position.

= fast
= slow
= adjustable timed interval wipe
O = Off

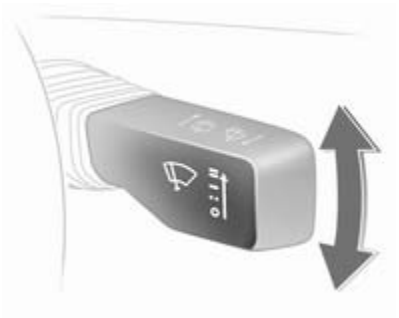
For a single wipe when the windscreen wiper is off, press the lever down.

Run through the windscreen wiper stages by pushing the lever past the resistance point and holding. An acoustic signal sounds at O.

Do not use if the windscreen is frozen.

Switch off in car washes.

#### Adjustable wiper interval



To set the wiper interval to a value between 2 and 15 seconds: Switch on ignition, move lever down from position O, wait desired time interval and raise lever to .

After turning on the ignition and setting the lever to – –, the interval is set to 6 seconds.

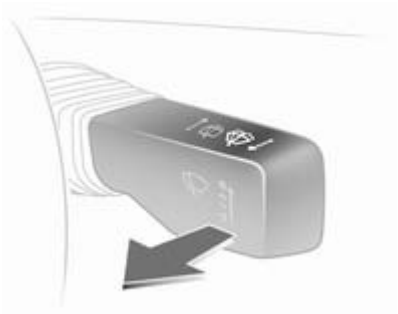
### Automatic wiping with rain sensor

– – = Automatic wiping with rain sensor

The rain sensor detects the amount of water on the windscreen and automatically regulates the frequency of the windscreen wipers.

Keep the sensor free from dust, dirt and ice.

## Windscreen washer



Pull lever. Washer fluid is sprayed on the windscreen and the wiper wipes for a few strokes.

If the lights are on, washer fluid is also sprayed on the headlights. The headlight washer system is then inoperable for 2 minutes.

# Rear window wiper/washer

Push lever forwards. The rear window wiper wipes in interval mode. Switch off by pushing lever forwards again.

If the lever is held forwards, washer fluid is sprayed on the rear window.

Do not use if the rear window is frozen.

Switch off in car washes.

The rear screen wiper comes on automatically when the windscreen wiper is switched on and reverse gear is engaged.

## Outside temperature

A drop in temperature is indicated immediately and a rise in temperature after a time delay.

If outside temperatures drop to 3 °C, the symbol ❄ illuminates in the Triple-Info-Display or the Board-Info-Display as a warning for icy road conditions. ❄ remains illuminated until temperatures reach at least 5 °C.

In vehicles with Graphic-Info-Display or Color-Info-Display, a warning message appears in the display as a warning for icy road conditions. There is no message below -5 °C.

**⚠Warning**

The road surface may already be icy even though the display indicates a few degrees above 0 °C.

## Clock

Date and time are shown in the Info-Display.

Board-Info-Display ⇨ 98, Graphic-Info-Display, Color-Info-Display ⇨ 101.

### Set date and time in Triple-Info-Display

To set time, hold the setting button in the instrument panel depressed for approx. 2 seconds. A brief press will set the flashing value. Hold the button depressed for 2 seconds again to switch to the next unit and to exit setting mode.

#### Automatic time synchronisation

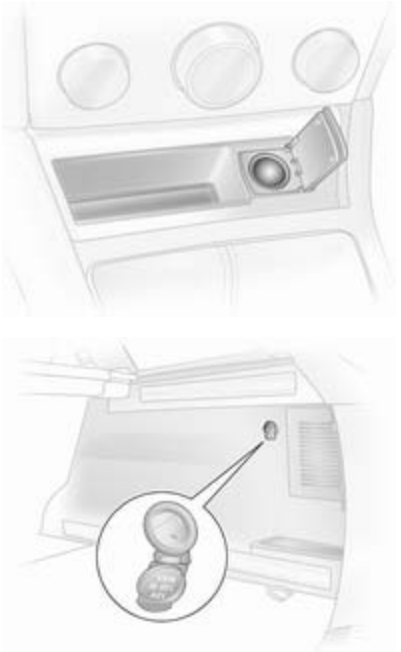
The RDS signal of most VHF transmitters automatically sets the time, identified by RDS in the display.

Some transmitters do not send a correct time signal. In such cases, we recommend to switch off automatic time synchronisation.

Activate setting mode and set it to year setting. Hold the ⏲ button depressed about 3 seconds until RDS flashes in the display and “RDS TIME" appears. The function is activated (RDS TIME 1) or deactivated (RDS TIME 0) with the ⊙ button. Exit setting mode using the ⏲ button.

## Power outlets

Some vehicles have a power outlet for the connection of electrical accessories instead of a cigarette lighter.



Estates have an additional accessory socket in the load compartment.

Connecting electrical accessories while the engine is off will discharge the battery.

Do not exceed the maximum power consumption of 120 Watts.

Electrical accessories connected to the socket must comply with the electromagnetic compatibility requirements laid down in DIN VDE 40 839.

Do not connect any current-delivering accessories, e.g. electrical charging devices or batteries.

Do not damage the power outlets by using unsuitable plugs.

## Cigarette lighter

The cigarette lighter is located behind the ashtray cover. Press ashtray cover to open.

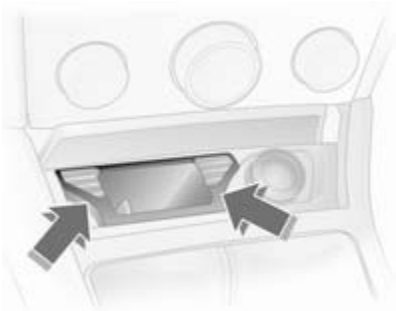
Press in cigarette lighter. Switches off automatically once the element is glowing. Pull out lighter.

## Ashtrays

| Caution |
| --- |
| To be used only for ash and not for combustible rubbish. |

## Ashtray, front

Press ashtray cover to open.



To empty, grip both sides of the ashtray insert and pull upwards.

## Ashtray, rear

Pull out by pushing on one of the sides.

To empty, press spring and pull the ashtray straight out rearwards.

# Warning lights, gauges and indicators

## Instrument cluster

In some versions, the needles of the instruments briefly rotate to the end position when the ignition is switched on.

## Speedometer

Indicates vehicle speed.

## Odometer

The bottom line displays the recorded distance.

## Trip odometer

The top line displays the counted miles since the last reset.

To reset, hold the reset knob depressed for a few seconds with the ignition on.

## Tachometer

Displays the engine speed.

Drive in a low engine speed range for each gear as much as possible.

| Caution |
| --- |
| If the needle is in the red warning zone, the maximum permitted engine speed is exceeded. Engine at risk. |

## Fuel gauge

Displays the fuel level in the tank depending on the operation mode.

Control indicator illuminates if the level in the tank is low. Refuel immediately if it flashes.

Never run the tank dry.

Because of the fuel remaining in the tank, the top-up quantity may be less than the specified tank capacity.

## Service display

The message **InSP** appears when it is time for servicing. Further information ⇨ 201.

## Control indicators

The control indicators described are not present in all vehicles. The description applies to all instrument versions. When the ignition is switched on, most control indicators will illuminate briefly as a functionality test.

The control indicator colours mean:

| | | |
|---|---|---|
| Red | = | Danger, important reminder, |
| Yellow | = | Warning, information, fault, |
| Green | = | Confirmation of activation, |
| Blue | = | Confirmation of activation. |

1/2
E
1/1
IDS+

## Turn signal

⇦⇨ illuminates or flashes green.

### Illuminates

The control indicator illuminates briefly when the parking lights are switched on.

### Flashes

The control indicator flashes if a turn signal or the hazard warning flashers are activated.

Rapid flashing: failure of a direction indicator lamp or associated fuse, failure of direction indicator lamp on trailer.

Bulb replacement ⇨ 162. Fuses ⇨ 175.

Turn signals ⇨ 116.

## Seat belt reminder

illuminates or flashes red.

### Illuminates

After the ignition is switched on until the seat belt is fastened.

### Flashes

After starting off until the seat belt is fastened.

Fastening the seat belt ⇨ 53.

## Airbag, belt tensioners and anti-roll bars

illuminates red.

When the ignition is switched on, the control indicator illuminates for approx. 4 seconds. If it does not illuminate, does not go out after 4 seconds or illuminates whilst driving, there is a fault in the belt tensioner, the airbags, the deployable anti-roll bars or the seat occupancy recognition system. The systems may fail to trigger in the event of an accident.

Deployment of the belt tensioners, airbags or deployable anti-roll bars is indicated by continuous illumination of .

**⚠ Warning**

Have the cause of the fault remedied immediately by a workshop.

Airbag system, belt tensioners ⇨ 55, ⇨ 52.

## Seat occupancy recognition

illuminates or flashes yellow.

### Illuminated

If the vehicle is equipped with seat occupancy recognition, illuminates for approx. 4 seconds after the ignition is switched on.

If a child restraint system with transponders is detected, remains illuminated. Only then a child restraint system with transponders may be used on the front passenger seat as the front passenger airbag systems are deactivated ⇨ 57.

**⚠Danger**

If a child restraint system is fitted and the control indicator is not illuminated while driving, the front and side airbag for the front passenger seat are not deactivated.

### Flashes

Fault in system or child restraint system with transponders defective or improperly fitted ⇨ 57.

**⚠Danger**

Flashing of the control indicator while driving indicates a fault. Have the cause of the fault remedied by a workshop immediately.

Child restraint system with transponders ⇨ 63.

## Charging system

illuminates red.

Illuminates when the ignition is switched on and goes out shortly after the engine starts.

### Illuminates when the engine is running

Stop, switch off engine. Battery is not charging. Engine cooling may be interrupted. In diesel engines, power to the brake servo unit may be cut. Seek the assistance of a workshop.

## Malfunction indicator light

illuminates or flashes yellow.

Illuminates when the ignition is switched on and goes out shortly after the engine starts.

### Illuminates when the engine is running

Fault in the emission control system. The permitted emission limits may be exceeded. Immediately seek the assistance of a workshop.

### Flashes when the engine is running

Fault that could lead to catalytic converter damage. Ease up on the accelerator until the flashing stops. Seek the immediate assistance of a workshop.

## Service vehicle soon

illuminates or flashes yellow.

### Illuminates when the engine is running

Fault in engine or transmission electronics ⇨ 136, ⇨ 140. The electronics switch to an emergency running programme. Fuel consumption may be increased and the vehicle handling may be impaired.

If the fault persists after restarting the vehicle, consult a workshop.

### Illuminates together with InSP4 in the service display

Seek the assistance of a workshop for draining the diesel fuel filter ⇨ 106.

### Flashes with switched on ignition

Fault in the immobiliser system. The engine cannot be started ⇨ 30.

Switch off the ignition and repeat the start attempt.

If the control indicator continues flashing, attempt to start the engine using the spare key and seek the assistance of a workshop.

## Brake and clutch system

(!) illuminates or flashes red.

### Illuminated

Illuminates after the ignition is switched on if the parking brake is applied ⇨ 143.

Illuminates when the parking brake is released if the brake and clutch fluid level is too low ⇨ 159.

| ⚠ Warning |
| --- |
| Stop. Do not continue your journey. Consult a workshop. |

### Flashes

On vehicle with automated manual transmission, flashes for a few seconds when the ignition is switched off if the parking brake is not applied.

On vehicles with automated manual transmission, flashes when the driver's door is opened if no gear is engaged and the parking brake is not applied.

## Antilock brake system (ABS)

(ABS) illuminates red.

Illuminates for a few seconds after the ignition is turned on. The system is ready for operation when the control indicator goes out.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the ABS. The brake system remains operational but without ABS regulation.

Antilock Brake System ⇨ 142.

## Sport mode

illuminates yellow.

The symbol is illuminated when Sport mode is on ⇨ 135, ⇨ 139.

## Winter mode

illuminates yellow.

The symbol is illuminated when Winter mode is on ⇨ 135, ⇨ 139.

## Ultrasonic parking assist

P illuminates or flashes yellow.

### Illuminates

Fault in system. Have the cause of the fault remedied by a workshop.

### Flashes

Fault due to sensors that are dirty or covered by ice or snow.

or

Interference due to external sources of ultrasound. Once the source of interference is removed, the system will operate normally.

Ultrasonic parking sensors ⇨ 146.

## Electronic Stability Program

flashes or illuminates yellow.

Illuminates for a few seconds when the ignition is switched on.

### Flashes whilst driving

The system is actively engaged. Engine output may be reduced and the vehicle may be braked automatically to a small degree ⇨ 143.

### Illuminates whilst driving

The system is switched off or a fault is present. Continued driving is possible. Driving stability, however, may deteriorate depending on road surface conditions.

Have the cause of the fault remedied by a workshop.

ESP®[Plus] ⇨ 143.

## Engine coolant temperature

illuminates red.

### Illuminates when the engine is running

Stop, switch off engine.

| Caution |
| --- |
| Coolant temperature too high. |

Check coolant level immediately ⇨ 158.

If there is sufficient coolant, consult a workshop.

## Preheating and diesel particle filter

illuminates or flashes yellow.

### Illuminates

Preheating activated. Only activates when outside temperature is low.

### Flashes

in vehicles fitted with a diesel particle filter.

Control indicator flashes if the filter requires cleaning and previous driving conditions did not permit automatic cleaning. Continue driving and if possible do not allow engine speed to drop below 2000 rpm.

The control indicator goes off as soon as the self-cleaning operation is complete.

Diesel particle filter ⇨ 131.

## Deflation detection system and tyre pressure monitoring system

illuminates or flashes red or yellow.

### Control indicator illuminates red

Tyre pressure loss. Stop immediately and check tyre pressure. A maximum speed of 50 mph is permitted for run-flat tyres ⇨ 183.

### Control indicator illuminates yellow

Fault in system or tyre without pressure sensor mounted (e.g. spare wheel). Consult a workshop.

### Flashes

Flashes three times to indicate system initialisation.

Deflation detection system ⇨ 186, tyre pressure monitoring system ⇨ 185.

## Interactive driving system, continuous damping control, sport mode

IDS+ illuminates yellow.

Illuminates when the ignition is switched on and goes out shortly after the engine starts. Illumination whilst driving indicates a fault in the system. Have the cause of the fault remedied by a workshop.

IDS$^{Plus}$ ⇨ 144, CDC ⇨ 145, Sport mode ⇨ 144.

## Engine oil pressure

illuminates red.

Illuminates when the ignition is switched on and goes out shortly after the engine starts.

### Illuminates when the engine is running

**Caution**

Engine lubrication may be interrupted. This may result in damage to the engine and/or locking of the drive wheels.

1. Depress clutch.
2. Select neutral gear, set selector lever to **N**.
3. Move out of the flow of traffic as quickly as possible without impeding other vehicles.
4. Switch off ignition.

**⚠ Warning**

When the engine is off, considerably more force is needed to brake and steer.

Do not remove key until vehicle is stationary, otherwise the steering wheel lock could engage unexpectedly.

Check oil level before seeking the assistance of a workshop ⇨ 157.

## Low engine oil level

illuminates yellow.

Engine oil level is checked automatically.

### Illuminates when the engine is running

Low engine oil level. Check engine oil level and top up as necessary ⇨ 157.

## Low fuel

illuminates or flashes yellow.

### Illuminates
Level in fuel tank too low.

### Flashes
Fuel used up. Refuel immediately. Never run the tank dry.

Catalytic converter ⇨ 132.

Bleeding the diesel fuel system ⇨ 161.

## Open&Start system
illuminates or flashes yellow.

### Flashes
The electronic key is no more within the reception range of the vehicle interior. The engine cannot be started. Hold the **Start/Stop** button depressed a bit longer to switch off the ignition.

or

Failure of the electronic key. Operation is yet only possible via emergency operation.

### Illuminates
Fault in system. Try to operate with the spare key, the remote control or through emergency operation. Hold the **Start/Stop** button depressed a bit longer to switch off the ignition. Seek the assistance of a workshop.

or

The steering wheel lock is still engaged. Move the steering wheel slightly and press the **Start/Stop** button.

Open&Start System ⇨ 21.

## Apply footbrake
illuminates yellow.

The engine with manual transmission automated can only be started if the foot brake is depressed. If the foot brake is not depressed, the control indicator illuminates ⇨ 138.

## Exterior light
illuminates green.

Illuminates when the exterior lights are on ⇨ 113.

## High beam
illuminates blue.

Illuminates when high beam is on and during headlamp flash ⇨ 114.

## Adaptive forward lighting
illuminates or flashes yellow.

### Illuminates
Fault in system.

If the swivelling device for curve lighting fails, the corresponding low beam lamp is deactivated and the fog lamp is switched on.

Seek the assistance of a workshop.

### Flashes
Fault in system. Consult a workshop immediately.

Control indicator flashes for approx. 4 seconds after the ignition is switched on as a reminder that the system has been switched ⇨ 114.

Adaptive Forward Lighting (AFL) ⇨ 115.

## Fog light

illuminates green.

Illuminates when the front fog lights are on ⇨ 116.

## Rear fog light

illuminates yellow.

Illuminates when the rear fog light is on ⇨ 116.

## Cruise control

illuminates green.

Illuminates when the system is on ⇨ 145.

## Door open

illuminates red.

Illuminates when a door or the tailgate is open.

# Information displays

## Triple-Info-Display

Displays time, outside temperature and date or Infotainment system when it is on.

When the ignition is off, time, date and outside temperature can be displayed by briefly pressing one of the two buttons below the display.

## Board-Info-Display

Displays time, outside temperature and date or Infotainment system information.

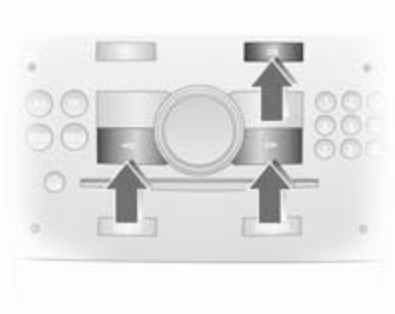
### Selecting functions

Functions and settings of the Infotainment system can be accessed via the board information display.

This is done using the menus and buttons of the Infotainment system.

If nothing is operated within 5 seconds, the menus are automatically exited.

### Select using the Infotainment system buttons



In the **Settings** menu, use the **OK** button to call up the required function. Use the arrow buttons to change settings.

In the **BC** menu, use the **OK** button to call up the required function. Use the **OK** button to operate the stop watch or restart measurement and calculation.

### Select using the left adjuster wheel on the steering wheel

Press the adjuster wheel to open the **BC** menu. In the **BC** menu press to operate the stop watch or restart measurement and calculation.

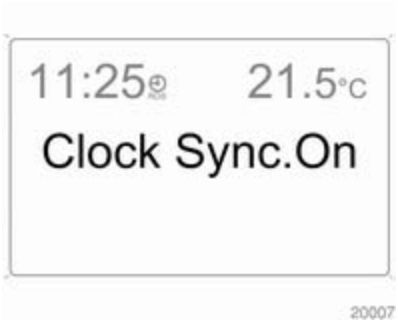
Turn the adjuster wheel to call up the required function.

## System settings

Press the **Settings** button of the Infotainment system. Menu item **Audio** then opens.

Call up **System** with the left arrow button and select with the **OK** button.

### Automatic time synchronisation




The RDS signal of most VHF transmitters automatically sets the time. This can be identified by RDS in the display.

Some transmitters do not send a correct time signal. In such cases, we recommend to switch off automatic time synchronisation.

Deactivate (**Clock Sync.Off**) or activate (**Clock Sync.on**) automatic time synchronisation with the arrow buttons.

### Setting date and time

The value ready for modification is marked with arrows. Use the arrow buttons to make the required setting.

**Ignition logic**
See Infotainment system manual.

### Language selection

The display language for some functions can be selected.

Select the required language with the arrow buttons.

### Setting units of measure

Select the required unit of measurement with the arrow buttons.

## Graphic-Info-Display, Colour-Info-Display

Displays time, outside temperature, date or Infotainment system (when it is on) and electronic climate control system.

The Color-Info-Display displays the information in colour.

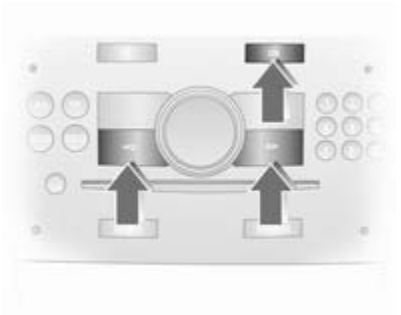
The type of information and how it is displayed depend on the equipment of the vehicle and the settings made.

### Selecting functions

Functions and settings of the Infotainment system and electronic climate control system are accessed via the display.

Selections are made via the menus and buttons, the multifunction control of the Infotainment system or the left adjuster wheel of the steering wheel.

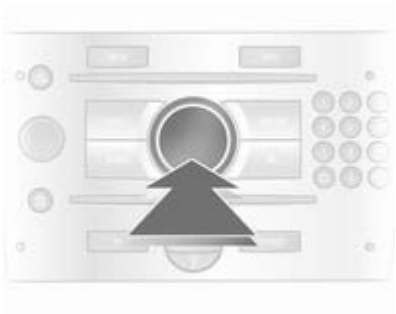
#### Selecting with the Infotainment system buttons



Select menu items via the menus and using the Infotainment system buttons. The **OK** button is used to select the highlighted item or confirm a command.

To exit a menu, press the right or left arrow button until **Return** or **Main** appear and select.

**Selecting with the multifunction control**



Turn the multifunction control to highlight menu items or commands and to select function areas.

Press the multifunction control to select the highlighted item or confirm a command.

To exit a menu, turn the multifunction control until **Return** or **Main** appear and select.

**Selecting with the left adjuster wheel on the steering wheel**

Turn to select a menu item.

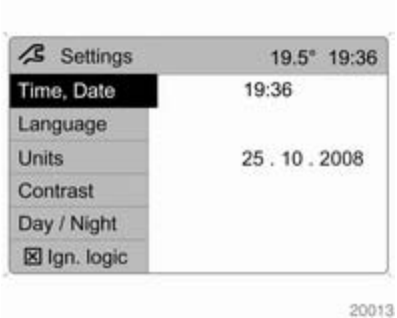
Press the adjuster wheel to select the highlighted item or confirm a command.

## Function areas

For each function area there is a main page (Main), which is selected at the top edge of the display (not with Infotainment system CD 30 or the Mobile Phone Portal):

- Audio,
- Navigation,
- Telephone,
- Trip computer.

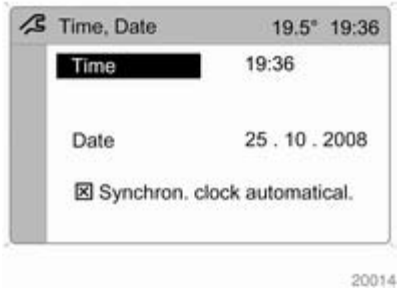
## System settings




Press the **Main** button of the Infotainment system.

Press the **Settings** button on the Infotainment system. For Infotainment system CD 30, no menu may be selected.

### Setting date and time




Select menu item **Time, Date** from the **Settings** menu.

Select the required menu items and make settings.

Changing the time setting will also change the time setting of the navigation system.

#### Automatic time synchronisation

The RDS signal of most VHF transmitters automatically sets the time.

Some transmitters do not send a correct time signal. In such cases, we recommend to switch off automatic time synchronisation.

The function is activated by ticking the field in front of **Synchron. clock automatical.** in the **Time, Date** menu.

### Language selection

The display language for some functions can be selected.

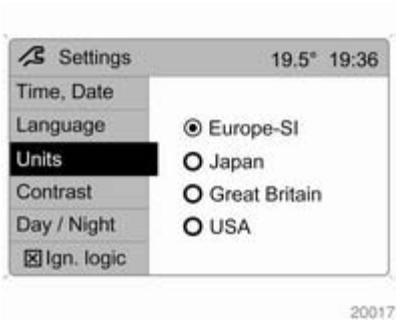
Select menu item **Language** from the **Settings** menu.

Select the desired language.

Selection is indicated by a ► in front of the menu item.

In systems with voice output, when the language setting of the display is changed the system will ask whether the announcement language should also be changed - see Infotainment system manual.

## Setting units of measure

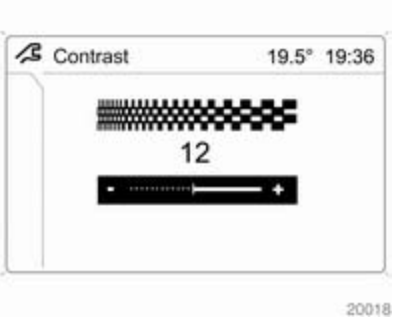



Select menu item **Units** from the **Settings** menu.

Select the desired unit.

Selections are indicated by a ● in front of the menu item.

## Adjusting contrast (Graphic-Info-Display)




Select menu item **Contrast** from the **Settings** menu.

Confirm the required setting.

### Setting display mode

Display brightness is dependent of vehicle lighting. Additional settings can be made as follows:

Select menu item **Day/Night** from the **Settings** menu.

**Automatic:** The colours are adapted to the exterior lights.

**Always day design:** black or coloured text on light background.

**Always night design:** white or coloured text on dark background.

Selection is indicated by a ● in front of the menu item.

**Ignition logic**
See Infotainment system manual.

# Vehicle messages

Messages are given via the instrument panel display or as warning and signal buzzers. Check control messages appear on the Info-Display. Some appear in an abbreviated form. Confirm warning messages with the multifunction knob ⇨ 98, ⇨ 101.

## Warning chimes

### When starting the engine or whilst driving

- If the electronic key is not present or is not recognised.
- If seat belt is not fastened.
- If a door or the tailgate is not fully closed when starting off.
- If a certain speed is exceeded with the parking brake applied.
- If the speed programmed at the factory is exceeded.
- If the vehicle has automated manual transmission and the driver's door is opened when the engine is running, a gear is engaged and the foot brake is not depressed.

### When the vehicle is parked and the driver's door is opened

- When the key is in the ignition switch.
- With exterior lights on.
- With Open&Start system and automatic transmission, if the selector lever is not in **P**.
- For automated manual transmission, if the parking brake is not applied and no gear is engaged when the engine is switched off.

### When operating the retractable hardtop

- Indicator buzzer upon completed opening or closing of the convertible hardtop.
- Indicator buzzer upon completed raising or lowering of the electric load compartment loading aid.

- Gong tone if the tailgate is not closed during roof operation.
- Gong tone if the tailgate is not fully open during operation of the load compartment loading aid.
- Gong tone during roof operation if vehicle speed exceeds 20 mph.
- Gong tone when vehicle speed exceeds 20 mph if the roof is not fully open or closed.
- Three gong tones during roof or loading aid operation if the load compartment blind is not attached.
- Three gong tones during roof operation if outside temperature is below -20 °C, vehicle battery voltage is too low or the system is overloaded.
- Continuous warning buzzer during roof operation if the anti-roll bars have been triggered.
- Continuous warning buzzer starting one minute before the end of the 9-minute standby time with the roof in an intermediate position or the loading aid in a raised position.
- Persistent warning buzzer when closing the tailgate, if the lowering process of the electric load aid is not complete or has been interrupted.

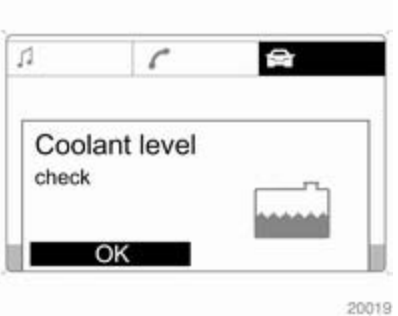
## Battery voltage

Low battery voltage in radio remote control or electronic key. On vehicles without check control, the message **InSP3** appears in the instrument panel display. Replace the battery ⇨ 20, ⇨ 21.

## Brake light switch

Brake light does not come on during braking. Have the cause of the fault remedied immediately by a workshop.

## Engine cooling level




Low fluid level in engine cooling system. Check coolant immediately ⇨ 158.

## Drain diesel fuel filter

If there is water in the diesel fuel filter, the message **InSP4** appears in the instrument panel. Consult a workshop.

## Lighting

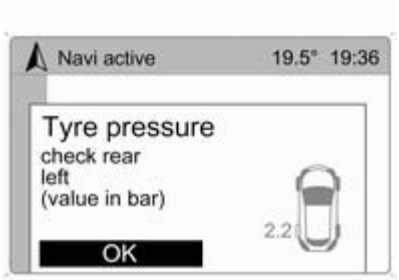
Important exterior lights, including cables and fuses, are monitored. In trailer mode, trailer lighting is also monitored. Trailers with LED lighting must have an adapter that enables light monitoring as with conventional bulbs.

The failed lighting will be indicated in the information display or the message **InSP2** will appear in the instrument panel display.

## Anti-theft alarm system

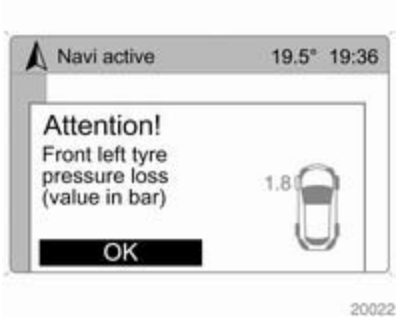
System fault in anti-theft alarm system. Have the cause of the fault remedied by a workshop.

## Tyre pressure




On vehicles with tyre pressure monitoring system, if there is low tyre pressure, information which tyre to check appears on the display.

Reduce speed and check tyre pressure at the next opportunity. Tyre pressure monitoring system ⇨ 185. Check tyre pressure ⇨ 184, ⇨ 226.




If there is a considerable loss of pressure, a corresponding message appears indicating the tyre.

Steer out of flow of traffic as quickly as possible without endangering other vehicles. Stop and check the tyres. Mount the spare wheel ⇨ 190. If run-flat tyres are fitted, maximum speed is 50 mph. Information ⇨ 183. Tyre pressure monitoring system ⇨ 185.

## Washer fluid level

Low washer fluid level. Top up washer fluid ⇨ 159.

# Trip computer

## Trip computer in Board-Info-Display

Access the data by pressing the **BC** button on the Infotainment system or the left adjuster wheel on the steering wheel.

Some information appears in the display in an abbreviated form.

Once an audio function has been selected, the lower row of the trip computer function is displayed furthermore.

### Instantaneous consumption

Displays the instantaneous consumption. At low speeds, consumption per hour is displayed.

### Average consumption

Displays average consumption. The measurement can be reset at any time.

### Absolute consumption

Displays fuel consumed. The measurement can be reset at any time.

### Average speed

Displays average speed. The measurement can be reset at any time.

Stoppages in the journey with the ignition off are not included in the calculations.

### Distance

Displays distance travelled. The measurement can be reset at any time.

### Range

Range is calculated from current fuel tank content and current consumption. The display shows average values.

After refuelling, the range updates automatically after a brief delay.

When the fuel level in the tank is low, the message **Range** appears in the display.

When the fuel tank is nearly empty, the message **Refuel!** appears in the display.

### Stop watch

Select the function. Press the **OK** button or the left adjuster wheel on the steering wheel to start or stop the stop watch.

### Restart trip computer

The measurement or calculation of the following trip computer information can be restarted:

- Average consumption,
- Absolute consumption,
- Average speed,
- Distance,
- Stop watch.

Select the desired trip computer information ⇨ 98. To restart, press the **OK** button or the left adjuster wheel on the steering wheel for approx. 2 seconds.

## Trip computer in Graphic-Info-Display or Colour-Info-Display

The main page of the trip computer provides information on range, current consumption and average consumption of **BC 1**.

To display other trip computer data, press the **BC** button on the infotainment system, select the trip computer menu from the display or press the left adjuster wheel on the steering wheel.

Select **BC 1** or **BC 2** from the trip computer menu.

## Range

20025

Range is calculated from current fuel tank content and current consumption. The display shows average values.

After refuelling, the range is updated automatically after a brief delay.

20026

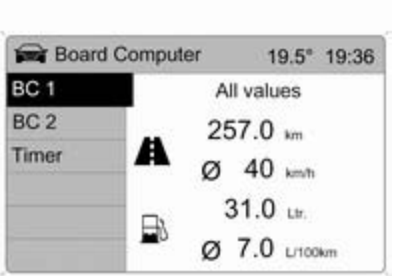
When the fuel level in the tank is low, the message **Range** appears in the display.

When the fuel tank is nearly empty, the message **Please refuel!** appears in the display.

The navigation system will support you in finding the nearest filling station. See Infotainment manual for further information.

### Instantaneous consumption

Display of the instantaneous consumption. At low speeds, consumption per hour is displayed.




20027

### Distance

Displays distance travelled. The measurement can be reset at any time.

### Average speed

Displays average speed. The measurement can be reset at any time.

Stoppages in the journey with the ignition off are not included in the calculations.

### Absolute consumption

Displays fuel consumed. The measurement can be reset at any time.

### Average consumption

Displays average consumption. The measurement can be reset at any time.

### Restart trip computer

The measurement or calculation of the following trip computer information can be restarted:

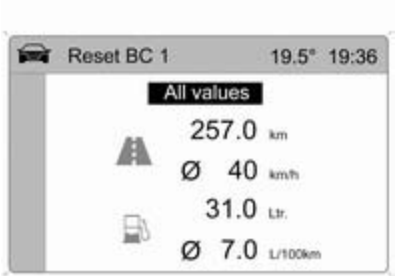
- Distance,
- Average speed,
- Absolute consumption,
- Average consumption.

Select **BC 1** or **BC 2** from the **Board computer** menu.

20028

The information of the two trip computers can be reset separately, making it possible to evaluate data from different time periods.

Select the required trip computer information and confirm.




20029

To reset all information of a trip computer, select menu item **All values**.

## Stop watch

Select menu item **Timer** from the **Board Computer** menu.

To start, select menu item **Start**. To stop, select menu item **Stop**.

To reset, select menu item **Reset**.

The relevant stop watch display can be selected in the **Options** menu:

### Driving Time excl. Stops

The time the vehicle is in motion is recorded. Stationary time is not included.

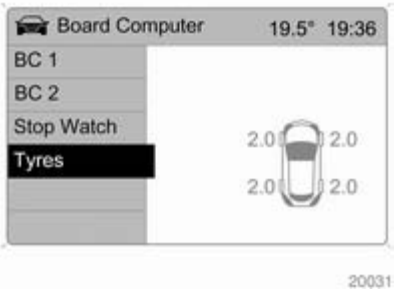
### Driving Time incl. Stops

The time the vehicle is in motion is recorded. The time the vehicle is stationary with the ignition switched on is included.

### Travel Time

Measurement of the time from manual activation via **Start** to manual deactivation via **Reset**.

## Tyre pressures




Select menu **Tyres** from the **Board Computer** menu.

The current pressure of each tyre is displayed.

Further information ⇨ 185.

# Lighting

Exterior lighting ..... 113
Interior lighting ..... 117
Lighting features ..... 118

# Exterior lighting

## Light switch

Turn light switch:

**0** = Off
≡D = Sidelights
≡D = Headlights

Control indicator ≡D ⇨ 97.

If the ignition is switched off with the headlights on, only the sidelights remain illuminated.

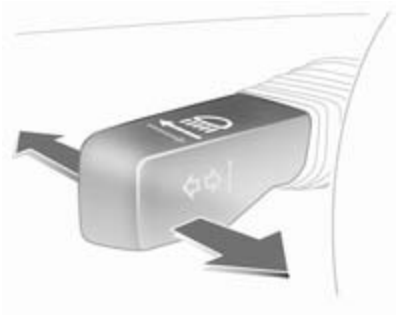
## Automatic light control

Light switch set to **AUTO**: When the engine is running, headlights are switched on when external light conditions are poor.

For reasons of safety, the light switch should always remain in the **AUTO** position.

Move light switch to ≡D if visibility is poor because of fog or mist.

## High beam



To switch from low to high beam, push lever.

To switch to low beam, push lever again or pull.

## Headlight flash

To activate the headlight flash, pull lever.

## Headlight range adjustment

### Manual headlight range adjustment

To adapt headlight range to the vehicle load to prevent dazzling: Press knob to disengage and turn to required position.

**Vehicles without automatic level control system**

0 = front seats occupied
1 = all seats occupied
2 = all seats occupied and load compartment laden
3 = driver's seat occupied and load compartment laden

**Vehicles with automatic level control system**

0 = front seats occupied
1 = all seats occupied
1 = all seats occupied and load compartment laden
2 = driver's seat occupied and load compartment laden

### Automatic headlight range adjustment

Headlight range is automatically adjusted based on vehicle load.

## Headlights when driving abroad

The asymmetrical headlight beam extends visibility at the edge of the road on the passenger side.

However, when driving in countries where traffic drives on the opposite side of the road, adjust the headlights to prevent dazzling of oncoming traffic.

### Vehicles with halogen headlight system

Have the headlights adjusted by a workshop.

### Vehicles with adaptive forward lighting

Adapting the aim of the headlight beam:

1. Pull lever and hold.
2. Switch on ignition.
3. An acoustic signal sounds after approx. 3 seconds.

Control indicator ⇨ 97.

## Daytime running lights

With the ignition on and the light switch set to **0** or **AUTO**, the sidelights are switched on. When the engine is running, headlights illuminate.

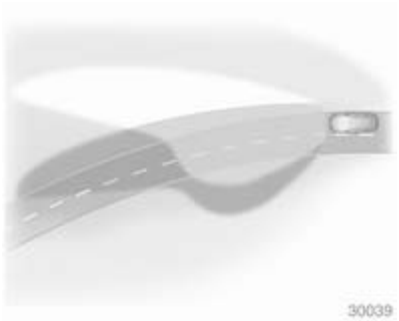
On vehicle without automatic light control, ≡D must be switched on when it gets dark for illumination of the instrument panel.

The daytime running lights switch off when the ignition is switched off.

## Adaptive forward lighting

Adaptive forward lighting with Bi-Xenon headlights improves lighting in curves and increases headlight range.

### Curve lighting




The light beam pivots based on steering wheel position and speed.

### Motorway lighting

At higher speeds and continuous straight ahead travel, the beam automatically raises slightly, thereby increasing headlight range.

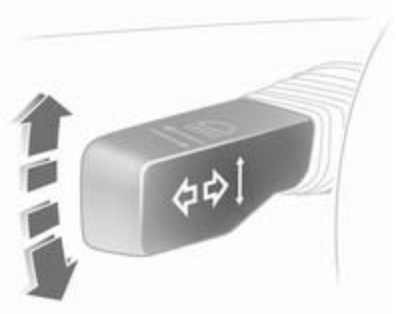
Control indicator ⇨ 97.

## Hazard warning flashers

Operated with the ⚠ button.

The hazard warning flashers activate automatically if the airbags deploy.

## Turn and lane-change signals



Lever up = right turn signal
Lever down = left turn signal

The lever always springs back to its original position.

If the lever is moved past the resistance point, the turn signal is switched on constantly. When the steering wheel moves back, the turn signal is automatically deactivated.

For three flashes, e.g. when changing lanes, press the lever until resistance is felt and then release.

Move the lever to the resistance point and hold for longer indication.

Switch the turn signal off manually by moving the lever slightly.

## Front fog lights

The front fog lights can only be switched on when both the ignition and headlights or sidelights are on.

Operated with the ≢D button.

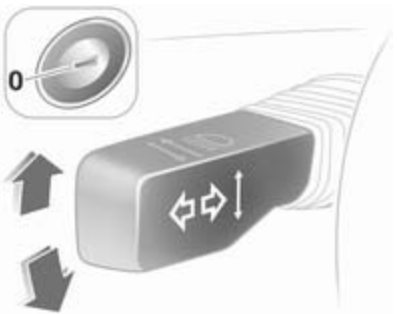
## Rear fog lights

The rear fog light can only be switched on when both the ignition and headlights or sidelights (with front fog lights) are on.

Operated with the ⊄≢ button.

The vehicle rear fog light is deactivated when towing.

## Parking lights



When parked, the parking light on one side can be activated:

1. Set light switch to **0** or **AUTO**.
2. Ignition off.
3. Move turn signal lever all the way up (right parking light) or down (left parking light).

Confirmed by a signal and the corresponding turn signal control indicator.

To switch it off, switch on the ignition or move the turn signal lever in the opposite direction.

## Reversing lights

The reversing lights come on when the ignition is on and reverse gear is selected.

## Misted light covers

The inside of the light covers may mist up briefly in poor, wet and cold weather conditions, in heavy rain or after washing. The mist disappears quickly by itself; to help, switch on the headlights.

# Interior lighting

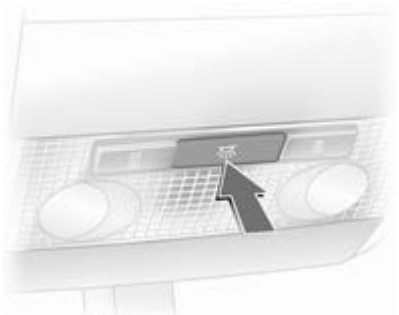
## Instrument panel illumination control

Brightness can be adjusted when the exterior lights are on: Press knob to disengage and then turn it and hold until the desired brightness is obtained.

## Interior lights

During entry and exit of the vehicle, the front and centre courtesy lights automatically come on and then switch off after a delay.

### Front courtesy light



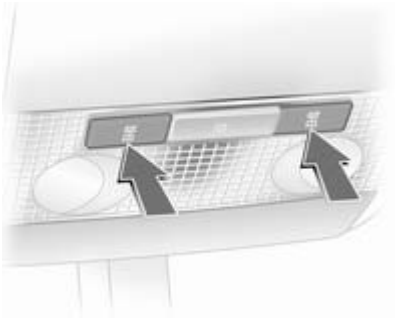
Operated with the button.

### Courtesy lights and rear reading lights

Operated with switch.

I = on
0 = off
centre = automatic

## Reading lights



Operated with buttons or switch.

I = on
0 = off
centre = automatic

## Sunvisor lights

The lighting switches on when the cover is opened.

# Lighting features

## Centre console lighting

Spotlight in interior mirror housing. Daylight-dependent, automatically regulated centre console lighting.

## Entry lighting

After unlocking the vehicle, the instrument panel lighting and the number plate lights come on for a few seconds.

Starting off ⇨ 16.

## Exit lighting

Headlights and reversing lights come on for approx. 30 seconds after the system is activated and the driver's door is closed.

### Activating

1. Switch off ignition.
2. Remove ignition key.
3. Open driver's door.
4. Pull turn signal lever.
5. Close driver's door.

If the driver's door is not closed the lights switch off after two minutes.

The lighting is switched off immediately if the turn signal lever is pulled while the driver's door is open.

## Battery discharge protection

To prevent the battery from becoming discharged, all the interior lighting is switched off automatically after 10 minutes, when the ignition is switched off.

# Climate control

Climate control systems ..... 120
Air vents ..... 126
Maintenance ..... 127

# Climate control systems

## Heating and ventilation system

Controls for:

- Air distribution
- Temperature
- Fan speed

Heated rear window ⇨ 36.

### Air distribution

= to head area and foot well
= to head area
= to windscreen and front door windows
= to windscreen, front door windows and foot well
= to foot well

Intermediate settings are possible.

### Temperature

red = warm
blue = cold

Heating will not be fully effective until engine has reached normal operating temperature.

### Fan speed

Adjust the air flow by switching the fan to the desired speed.

### Demisting and defrosting the windows

- Set air distribution control to .
- Set temperature control to warmest level.
- Set fan speed to highest level.
- Switch on heated rear window .

- Open side air vents as required and direct them towards door windows.
- For simultaneous warming of the foot well, set air distribution control to .

# Air conditioning system

In addition to the heating and ventilation system, the air conditioning system has:

= Cooling
= Air recirculation

## Cooling

Operated with the button and is functional only when the engine and fan are running.

The air conditioning system cools and dehumidifies (dries) as soon as the outside temperature is slightly above freezing point. Therefore condensation may form and drip from under the vehicle.

If no cooling or drying is required, switch the cooling system off to save fuel.

## Air recirculation system

Operated with the button.

**⚠Warning**

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Air distribution to : Air recirculation is deactivated.

## Maximum cooling

Briefly open the windows so that hot air can disperse quickly.

- Cooling on.
- Air circulation system on,
- Set air distribution control to .
- Set temperature control to coldest level.
- Set fan speed to highest level.
- Open all vents.

## Demisting and defrosting the windows

- Cooling on.
- Set air distribution control to .
- Set temperature control to warmest level.
- Set fan speed to highest level.
- Switch on heated rear window .

- Open side air vents as required and direct them towards door windows.
- For simultaneous warming of the foot well, set air distribution control to .

# Automatic climate control system

Controls for:

- Air distribution
- Temperature
- Fan speed

= Cooling
= Air recirculation
= Demisting and defrosting

Heated rear window ⇨ 36.

The preselected temperature is automatically regulated. In the automatic mode the fan speed automatically regulates the air flow.

## Automatic mode

Basic setting for maximum comfort:

- Set fan control to **A**.
- Set the air distribution control to the desired setting.
- Preset temperature to the desired level.
- Cooling on.
- Open all of the air vents.

## Air distribution

= to head area and foot well
= to head area
= to windscreen and front door windows
= to windscreen, front door windows and foot well
= to foot well

Intermediate settings are possible.

## Temperature preselection

Set the temperature control to the required position. Intermediate settings are possible.

For reasons of comfort, change temperature only in small increments.

At the end positions, there is no temperature regulation. The air conditioning system works with maximum cooling or heating.

Heating will not be fully effective until engine has reached normal operating temperature.

## Fan speed

In the automatic mode **A** the fan speed automatically regulates the air flow. If required the air flow can be manually adjusted.

## Cooling

Operated with the button and is functional only when the engine and fan are running.

The air conditioning system cools and dehumidifies (dries) when outside temperature is above a specific level. Therefore condensation may form and drip from under the vehicle.

If no cooling or drying is required, switch the cooling system off to save fuel.

## Air recirculation system

The air recirculation mode is operated with the button.

**⚠Warning**

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

## Maximum cooling

Briefly open the windows so that the heated air can disappear quickly.

- Cooling on.
- Set air distribution control to .
- Set temperature control to required temperature value.
- Set fan control to **A**.
- Open all vents.

The automatic climate control automatically cools to the specified value with the maximum cooling power.

With the temperature control turned to its minimum setting, the system continually runs at maximum cooling. The system is automatically set to air recirculation when the air conditioning is on.

## Demisting and defrosting the windows

- Cooling on.
- Press button : in position **A**, fan automatically switches to maximum speed, the air distribution is directed towards the windscreen.
- Set temperature control to warmest level.
- Switch on heated rear window .

# Electronic climate control system

Controls for:

- Temperature
- Air distribution and menu selection
- Fan speed

**AUTO** = Automatic mode
= air recirculation
= demisting and defrosting

Heated rear window ⇧ 36.

The preselected temperature is automatically regulated. In the automatic mode the fan speed and air distribution automatically regulate the air flow.

The system can be manually adapted by use of air distribution and air flow controls.

Data is shown on the Info-Display. Setting modifications are briefly shown in the Info-Display, superimposing over the currently displayed menu.

The electronic climate control system is only fully operational when the engine is running.

Do not cover the sensor on the instrument panel for correct operation.

## Automatic mode

Basic setting for maximum comfort:

- Press **AUTO** button.
- Open all air vents.
- **Air conditioning** on.
- Set desired temperature.

## Temperature preselection

Temperatures can be set to the desired value.

For reasons of comfort, change temperature only in small increments.

If the minimum temperature is set, **Lo** appears in the display and the electronic climate control system runs at maximum cooling.

If the maximum temperature is set, **Hi** appears in the display and the electronic climate control system runs at maximum heating.

## Fan speed

The selected fan speed is indicated with ✤ and a number in the display.

If the fan is switched off the air conditioning is also deactivated.

To return to automatic mode: Press **AUTO** button.

## Demisting and defrosting the windows

Press the ⇧ button. ⇧ appears in the display.

Temperature and air distribution are set automatically and the fan runs at a high speed.

To return to automatic mode: press button ⇧ or **AUTO**.

Switch on heated rear window ⇧.

## Manual settings in climate menu

Climate control system settings can be changed via the centre control, the buttons and the menus shown on the display.

To view the menu, press the centre control. The **Climate** menu appears in the display.

Individual menu items are marked by turning the centre control and selected by pressing it.

To exit a menu, turn the centre control until **Return** or **Main** appear and select.

## Air distribution

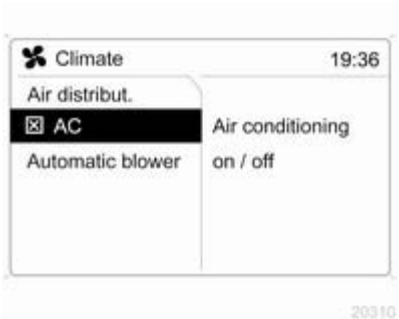
Turn the centre control. The **Air distribut.** menu is activated, showing the possible air distribution settings:

Top = to windscreen and front door windows.
Centre = to vehicle occupants.
Bottom = to foot well.

The **Air distribut.** menu can also be called up via the **Climate** menu.

Return to automatic air distribution: Deactivate corresponding setting or press button **AUTO**.

## Cooling




In the **Climate** menu, select menu item **AC** and activate or deactivate cooling.

The air conditioning system cools and dehumidifies (dries) when outside temperature is above a specific level. Therefore condensation may form and drip from under the vehicle.

If no cooling or drying is required, switch the cooling system off to save fuel, **Eco** appears in the display.

## Fan regulation in automatic mode

Fan regulation in automatic mode can be adapted.

Select menu item **Automatic blower** from the **Climate** menu and select the desired fan regulation.

## Manual air recirculation mode

The manual air recirculation mode is operated with the button.

**⚠Warning**

The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

### Air conditioning with the engine not running

When ignition is off, the residual heat or cooling in the system can be used for climate control in passenger compartment.

Press the **AUTO** button with the ignition off. **Residual air conditioning on** will appear briefly in the display.

Residual climate control can only operate for a limited period of time. To cancel, press the **AUTO** button.

## Auxiliary heater

### Air heater

Quickheat is an electric auxiliary air heater which warms up the passenger compartment more quickly.

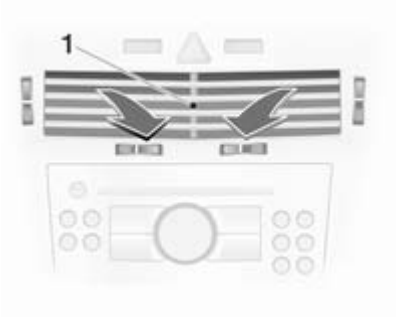
### Coolant heater

Diesel-engined vehicles have a fuel-powered auxiliary heater.

# Air vents

## Adjustable air vents

At least one air vent must be open while cooling is on in order to prevent the evaporator from icing up due to lack of air movement.




To open vent, turn the adjuster wheel to **I**.

Direct the flow of air by tilting and swivelling the slats.

To close the vent, turn the adjuster wheel to **0**.

**⚠Warning**

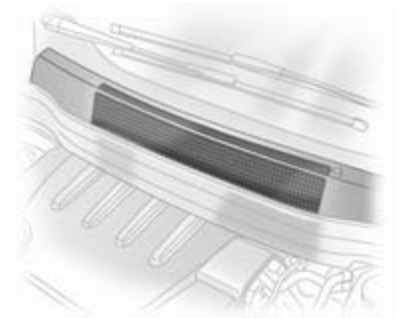
Do not attach any objects to the slats of the air vents. Risk of damage and injury in case of an accident.

## Fixed air vents

Additional air vents are located beneath the windscreen and door windows and in the foot wells.

# Maintenance

## Air intake



The air intakes in front of the windscreen in the engine compartment must be kept clear to allow air intake. Remove any leaves, dirt or snow.

## Pollen filter

The pollen filter cleans dust, soot, pollen and spores from the air entering the vehicle through the air intake.

## Air conditioning regular operation

In order to ensure continuously efficient performance, cooling must be operated for a few minutes once a month, irrespective of the weather and time of year. Operation with cooling is not possible when outside temperature is too low.

## Service

For optimal cooling performance, it is recommended to annually check the climate control system, starting three years after initial vehicle registration, including:

- Functionality and pressure test
- Heating functionality
- Leakage check
- Check of drive belts
- Cleaning of condenser and evaporator drainage
- Performance check

# Driving and operating

Driving hints ..... 128
Starting and operating ..... 128
Engine exhaust ..... 131
Automatic transmission ..... 132
Manual transmission ..... 137
Manual transmission automated ..... 138
Brakes ..... 142
Ride control systems ..... 143
Cruise control ..... 145
Object detection systems ..... 146
Fuel ..... 147
Towing ..... 150

# Driving hints

## Control of the vehicle

### Never coast with engine not running

Many systems will not function in this situation (e.g. brake servo unit, power steering). Driving in this manner is a danger to yourself and others.

### Pedals

To ensure the pedal travel is uninhibited, there must be no mats in the area of the pedals.

# Starting and operating

## New vehicle running-in

Do not brake unnecessarily hard for the first few journeys.

During the first drive, smoke may occur because of wax and oil evaporating off the exhaust system. Park the vehicle in the open for a while after the first drive and avoid inhaling the fumes.

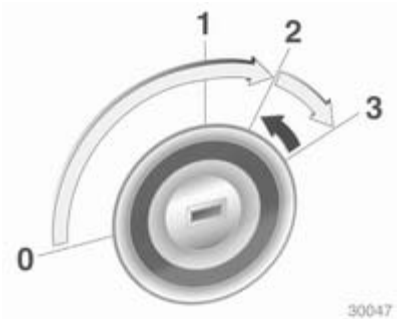
Fuel and engine oil consumption may be higher during the running-in period.

## Ignition switch positions

0 = Ignition off
1 = Steering wheel lock released, ignition off
2 = Ignition on, for diesel engine: preheating
3 = Starting

## Starting the engine

### Starting engine with ignition switch




Operate clutch and brake, automatic transmission in **P** or **N**, do not accelerate; for diesel engines, turn the key to position 2 for preheating until control indicator ⟆ goes out; turn key briefly to position 3 and release key when engine is running.

Before restarting or to switch off the engine, turn key back to position 0.

### Starting engine with the Start/Stop button

The electronic key must be inside the vehicle. Operate clutch and brake, automatic transmission in **P** or **N**, do not accelerate, for diesel engines, press the button briefly to start preheating, move the steering wheel slightly to release the steering wheel lock, wait until control indicator ⟆ goes out and then press button for 1 second and release when the engine is running.

To repeat the starting procedure or to switch off the engine, press the button again.

### Starting the vehicle at low temperatures

The start of the engine without additional heaters is possible down to -25 °C for diesel engines and -30 °C for petrol engines. Required is an engine oil with the correct viscosity, the correct fuel, performed services and a sufficiently charged battery. With temperatures below -30 °C the automatic transmission and the manual transmission automated need a warming phase of approx. 5 minutes. The selector lever must be in position **P** respectively **N**.

## Overrun cut-off

The fuel supply is automatically cut off during overrun, i.e. when the vehicle is driven with a gear engaged but accelerator is released.

## Parking

- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- Always apply parking brake without pressing release button. Apply as firmly as possible on downhill or uphill slopes. Depress the foot brake at the same time to reduce operating force.
- Switch off the engine and ignition. Turn the steering wheel until the steering wheel lock engages.
- If the vehicle is on a level surface or uphill slope, engage first gear or set the selector lever to **P** before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

  If the vehicle is on a downhill slope, engage reverse gear or set the selector lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.
- Lock the vehicle and activate the anti-theft locking system and the anti-theft alarm system.

# Engine exhaust

**⚠ Danger**

Engine exhaust gases contain poisonous carbon monoxide, which is colourless and odourless and could be fatal if inhaled.

If exhaust gases enter the interior of the vehicle, open the windows. Have the cause of the fault rectified by a workshop.

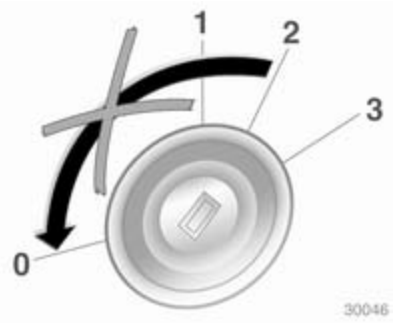
Avoid driving with an open load compartment, otherwise exhaust gases could enter the vehicle.

## Diesel particle filter

The diesel particle filter system filters harmful soot particles out of the exhaust gases. The system includes a self-cleaning function that runs automatically during driving. The filter is cleaned by burning off the soot particles at high temperature. This process takes place automatically under set driving conditions and may take up to 25 minutes. Fuel consumption may be higher during this period. The emission of smells and smoke during this process is normal.

Under certain driving conditions, e.g. short distances, the system cannot clean itself automatically.

If the filter requires cleaning and previous driving conditions did not enable automatic cleaning, control indicator flashes. Continue driving, keeping engine speed above 2000 revolutions per minute. Shift down if necessary. Diesel particle filter cleaning is then started.




Stopping the journey or switching off the engine during cleaning is not recommended.

**Caution**

If the cleaning process is interrupted more than once, there is a great risk of provoking severe engine damage.

Cleaning takes place quickest at high engine speeds and loads.

The control indicator ⛐ extinguishes as soon as the self-cleaning operation is complete.

## Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gases.

**Caution**

Fuel grades other than those listed on pages ⇨ 147, ⇨ 210 could damage the catalytic converter or electronic components.

Unburnt petrol will overheat and damage the catalytic converter. Therefore avoid excessive use of the starter, running the fuel tank dry and starting the engine by pushing or towing.

In the event of misfiring, uneven engine running, a reduction in engine performance or other unusual problems, have the cause of the fault rectified by a workshop as soon as possible. In an emergency, driving can be continued for a short period, keeping vehicle speed and engine speed low.

# Automatic transmission

The automatic transmission makes automatic shifting possible (automatic mode) and the version with ActiveSelect also makes manual shifting possible (manual mode).

## Transmission display

The mode or selected gear is shown in the transmission display.

## Selector lever

**P** = park position, Front wheels locked, engage only when the vehicle is stationary and the parking brake is applied
**R** = reverse gear, engage only when vehicle is stationary
**N** = neutral
**D** = automatic mode with all gears

The selector lever can only be moved out of **P** or **N** when the ignition is on and the foot brake is depressed (selector lever lock).

When the selector lever is in **N**, the selector lever lock is activated after a delay and only if the vehicle is stationary.

When the selector lever is in the **P** or **N** position, control indicator in the gear indicator strip illuminates red when the selector lever is locked. If the selector lever is not in the **P** position when the ignition is switched off, control indicator and **P** in the gear indicator strip flash.

To engage **P** or **R**, push button on selector lever.

When position **N** is selected, press foot brake or engage parking brake before starting.

Do not accelerate while engaging a gear. Never depress the accelerator pedal and brake pedal at the same time.

When a gear is engaged, the vehicle slowly begins to creep when the brake is released.

### Gears 3, 2, 1

3, 2, 1 = Transmission does not shift above the selected gear.

Press button on selector lever to engage **3** or **1**.

Only select **3**, **2** or **1** to prevent automatic upshifting or as an aid in engine braking.

### Engine braking

To utilise the engine braking effect, select a lower gear in good time when driving downhill.

### Rocking the vehicle

Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the selector lever between **D** and **R** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

### Parking

Apply the parking brake and engage **P**.

The ignition key can only be removed when the selector lever is in position **P**.

## Manual mode

Move selector lever out of position **D** towards the left and then forwards or backwards.

**+** = Shift to a higher gear.

**-** = Shift to a lower gear.

If a higher gear is selected when vehicle speed is too low, or a lower gear when vehicle speed is too high, the shift is not executed.

If engine speed is too low, the transmission automatically shifts to a lower gear above a specific vehicle speed.

No automatic shifting to a higher gear takes place at a high engine speed.

For reasons of safety, kickdown is also available in manual mode.

## Electronic driving programmes

- Following a cold start, the operating temperature programme increases engine speed to quickly bring the catalytic converter to the required temperature.
- The automatic neutral shift function automatically shifts to idling when the vehicle is stopped with a forward gear engaged.
- The adaptive programme tailors gearshifting to the driving conditions, e.g. greater load or gradients.
- When Sport mode is engaged, the vehicle shifts at higher engine speeds (unless cruise control is on). Sport mode ⇨ 144.

## Winter programme ❄

Activate the Winter programme to assist starting off on a slippery road surface.

**Activation on vehicles without manual mode**

Press the ❄ button with **P**, **R**, **N**, **D** or **3** engaged. The vehicle starts off in 3rd gear.

**Activation on vehicles with manual mode**

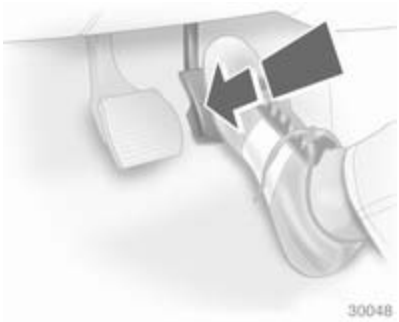
In automatic mode, press the ❄ button. Depending on road conditions, the vehicles starts off in 2nd or 3rd gear.

**Deactivation**

The Winter programme is switched off by:

- pressing the ❄ button again
- manually selecting **2** or **1**
- changing to manual mode
- turning off the ignition
- or if the transmission oil temperature is too high

### Kickdown




If the accelerator pedal is pressed past the pressure point, the transmission shifts to a lower gear depending on engine speed.

## Fault

In the event of a fault, illuminates. The transmission no longer shifts automatically. Continued travel is possible with manual shifting.

Have the cause of the fault remedied by a workshop.

### Version without manual mode

2nd gear is not available. Manual shifting:

**1** = 1st gear
**2** = 3rd gear
**3, D** = 4th gear

### Version with manual mode

Only the highest gear is available. Depending on the fault, 2nd gear may also be available in manual mode.

## Interruption of power supply

In the event of an interruption of power supply, the selector lever cannot be moved out of the **P** or **N** position.

If the battery is discharged, start the vehicle using jump leads ⇨ 194.

If the battery is not the cause of the fault, release selector lever:

1. Apply parking brake.
2. Release selector lever trim from centre console at rear, fold upwards and rotate to the left.

3. Push the yellow catch forward with a screwdriver and move the selector lever out of **P**.
4. Mount selector lever trim on centre console and refit.

Reselecting **P** causes locking again. Have a workshop eliminate the cause of the power loss.

# Manual transmission

To engage reverse, with the vehicle stationary wait 3 seconds after depressing the clutch pedal and then pull up the button on the selector lever and engage the gear.

If the gear does not engage, set the lever to neutral, release the clutch pedal and depress again; then repeat gear selection.

Do not grind the clutch unnecessarily.

When operating, depress the clutch pedal completely. Do not use the pedal as a foot rest.

| Caution |
| --- |
| It is inadvisable to drive with hand resting on the selector lever. |

# Manual transmission automated

The Easytronic transmission permits manual (manual mode) or automatic gear shifting (automatic mode), both with automatic clutch control.

## Transmission display

Shows the mode and current gear.

The display flashes for a few seconds when **A**, **M** or **R** is selected with the engine running and the foot brake not activated.

If the Winter programme is activated, ❄ is illuminated.

## Starting the engine

Depress the foot brake when starting the engine. If the foot brake is not depressed, ⊘ illuminates in the instrument cluster, "N" flashes in the transmission display and the engine cannot be started.

Starting is not possible if all brake lights fail.

When the foot brake is depressed, the transmission automatically shifts to **N** upon start. There may be a slight delay.

## Selector lever

Always move the selector lever in the appropriate direction as far as it will go. Upon release, it automatically returns to the centre position.

**N** = Neutral.
**A** = Switch between automatic and manual mode. The transmission display shows **A** or **M**.
**R** = Reverse gear. Engage only when vehicle is stationary.
**+** = Shift to a higher gear.
**-** = Shift to a lower gear.

### Starting off

Depress the foot brake and move the selector lever to **A**, **+** or **-**. The transmission is in automatic mode and first gear is engaged. If **R** is selected, reverse gear is engaged.

The vehicle starts to move when the brake is released.

To start off without depressing the foot brake, accelerate immediately after engaging a gear.

If neither the accelerator nor the brake pedal are depressed, no gear is engaged and **A** or **R** flashes for a brief time in the display.

### Stopping the vehicle

In **A**, first gear is engaged and the clutch is released when the vehicle is stopped. In **R**, reverse gear remains engaged.

### Engine braking

#### Automatic mode

When driving downhill, the manual transmission automated does not shift into higher gears until a fairly high engine speed has been reached. It shifts down in good time when braking.

#### Manual mode

To utilise the engine braking effect, select a lower gear in good time when driving downhill.

### Rocking the vehicle

Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the selector lever between **R** and **A** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

### Parking

Apply the parking brake. The most recently engaged gear (see transmission display) remains engaged. With **N**, no gear is engaged.

When the ignition is switched off the transmission no longer responds to movement of the selector lever.

## Manual mode

If a higher gear is selected when the engine speed is too low, or a lower gear when the speed is too high, the shift is not executed. This prevents the engine from running at too low or too high an engine speed.

If engine speed is too low, the transmission automatically shifts to a lower gear.

If engine speed is too high, the transmission only switches to a higher gear via kickdown.

When **+** or **-** is selected in automatic mode, the transmission switches to manual mode and shifts accordingly.

## Electronic driving programmes

- Following a cold start, the operating temperature programme increases engine speed to quickly bring the catalytic converter to the required temperature.

- The adaptive programme tailors gearshifting to the driving conditions, e.g. greater load or gradients.
- When Sport mode is engaged, shift times are reduced and the transmission shifts at higher engine speeds (unless cruise control is on). Sport mode ⇨ 144.

## Winter programme ❄

Activate the Winter programme if you have problems starting off on a slippery road surface.

### Activation

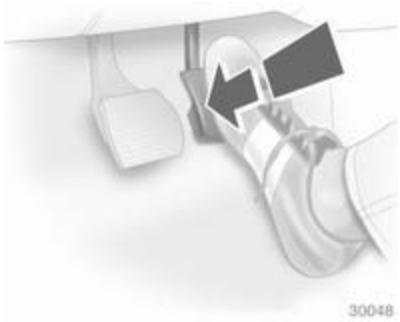
Press the ❄ button. The transmission switches to automatic mode. The vehicle starts off in 2nd gear. Sport mode is deactivated.

### Deactivation

The Winter programme is switched off by:

- pressing the ❄ button again
- turning off the ignition,
- switching to manual mode (when switched back to automatic mode, the Winter programme is again active)
- when clutch temperature is too high

## Kickdown




If the accelerator pedal is pressed past the pressure point, the transmission shifts to a lower gear depending on engine speed.

During kickdown no manual gear shifting is possible.

# Fault

To prevent damage to the manual transmission automated, the clutch is engaged automatically at high clutch temperatures.

illuminates in the event of a fault. Continued driving is possible. Manual mode cannot be used for shifting.

If **F** appears in the transmission display, continued driving is not possible.

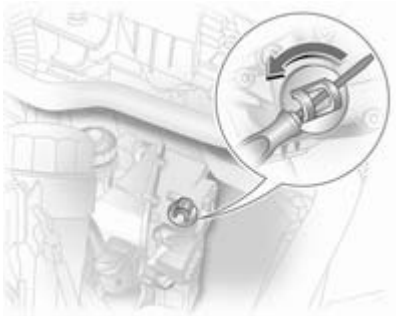
Have the cause of the fault remedied by a workshop.

## Interruption of power supply

The clutch is not disengaged if there is an interruption of the power supply when a gear is engaged. The vehicle cannot move.

If the battery is discharged, start the vehicle using jump leads ⇨ 194.

If the cause of the fault is not a discharged battery, seek the assistance of a workshop.



If the vehicle must be moved out of the flow of traffic, disengage the clutch as follows (for vehicles with 5-speed manual transmission automated only):

1. Apply parking brake and switch off ignition.
2. Open the bonnet ⇨ 156.
3. Clean the transmission around the cap so that no dirt can get into the opening when the cap is removed.
4. Rotate cap to slacken and remove by lifting upwards.
5. Using a flat-head screwdriver, turn the adjusting screw under the cap clockwise until clear resistance can be felt. The clutch has now been disengaged.
6. Refit cleaned cap. The cap must be in full contact with the housing.

On vehicles with 6-speed manual transmission automated, the clutch cannot be released; if the vehicle must be moved, raise the vehicle at the front to tow.

| Caution |
| --- |
| Do not turn beyond the resistance since this could damage the transmission. |

| Caution |
| --- |
| Towing the vehicle and starting the engine is not permitted when the clutch has been disengaged in this way, although the vehicle can be moved a short distance. |

Seek the immediate assistance of a workshop.

# Brakes

The brake system comprises two independent brake circuits.

If a brake circuit fails, the vehicle can still be braked using the other brake circuit. However, braking effect is achieved only when you depress the brake pedal firmly. Considerably more force is needed for this. The braking distance is extended. Seek the assistance of a workshop before continuing your journey.

When the engine is not running, the support of the brake servo unit disappears once the brake pedal has been depressed once or twice. Braking effect is not reduced, but braking requires significantly greater force. It is especially important to bear this in mind when being towed.

Control indicator ⓘ ⇨ 94.

## Antilock brake system

Antilock brake system (ABS) prevents the wheels from locking.

ABS starts to regulate brake pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even during hard braking.

ABS control is made apparent through a pulse in the brake pedal and the noise of the regulation process.

For optimum braking, keep the brake pedal fully depressed throughout the braking process, despite the fact that the pedal is pulsating. Do not reduce the pressure on the pedal.

After starting off the system performs a self-test which may be audible.

Control indicator ⓐ ⇨ 94.

### Adaptive brake lamp

During full braking, all three brake lamps flash for the duration of ABS control.

### Fault

**⚠Warning**

If there is a fault in the ABS, the wheels may be liable to lock due to braking that is heavier than normal. The advantages of ABS are no longer available. During hard braking, the vehicle can no longer be steered and may swerve.

Have the cause of the fault remedied by a workshop.

## Parking brake

Always apply parking brake firmly without operating the release button, and apply as firmly as possible on a downhill or uphill slope.

To release the parking brake, pull the lever up slightly, press the release button and fully lower the lever.

To reduce the operating forces of the parking brake, depress the foot brake at the same time.

Control indicator ⓘ ▷ 94.

## Brake assist

If the brake pedal is depressed quickly and forcefully, maximum brake force is automatically applied (full braking).

Maintain steady pressure on the brake pedal for as long as full braking is required. Maximum brake force is automatically reduced when the brake pedal is released.

## Hill start assist

The system helps prevent unintended movement when driving away on inclines.

When releasing the foot brake after stopping on an incline, the brakes remain on for a further two seconds. The brakes release automatically as soon as the vehicle begins to accelerate.

# Ride control systems

## Electronic stability program

Electronic stability program (ESP®$^{Plus}$) improves driving stability when necessary, regardless of the type of road surface or tyre grip. It also prevents the drive wheels from spinning.

As soon as the vehicle starts to swerve (understeer/oversteer), engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

ESP®$^{Plus}$ is operational as soon as control indicator 🚘 extinguishes.

When ESP®$^{Plus}$ comes into action 🚘 flashes.

**⚠Warning**

Do not let this special safety feature tempt you into taking risks when driving.

Adapt speed to the road conditions.

Control indicator ⇩ ⇨ 95.

### Deactivation

ESP®Plus can be deactivated when Sport mode is engaged for high-performance driving:

Hold the **SPORT** button depressed for about 4 seconds. Control indicator ⇩ illuminates. **ESPoff** also appears in the service display.

**⚠Warning**

Do not deactivate ESP®Plus if a run-flat tyre has lost pressure.

ESP®Plus is reactivated by pressing the **SPORT** button. **ESPon** appears in the service display. ESP®Plus is also reactivated the next time the ignition is switched on.

Sport mode ⇨ 144.

## Interactive driving system

Interactive driving system (IDSPlus) combines the electronic stability program (ESP®Plus) with the antilock brake system (ABS) and continuous damping control (CDC) to improve driving dynamics and vehicle safety.

## Sport mode

Suspension and steering become more direct and provide better contact with the road surface. The engine reacts more quickly to accelerator pedal movements.

Automatic gear changing is also more responsive.

Control indicator **IDS+** ⇨ 96.

### Activation

Press **SPORT** button.

Control indicator ⇨ ⇨ 94.

Winter programme activation not possible.

### Deactivation

Briefly press the **SPORT** button. Sport mode is deactivated the next time the ignition is switched on or if the Winter programme is activated.

## Continuous damping control

Continuous damping control (CDC) changes suspension with damping adaptation of each shock absorber to the current driving situation and road conditions.

When Sport mode is engaged, the damping control is adapted to a sportier driving style.

Control indicator **IDS+** ⇨ 96.

## Automatic level control

The rear level of the vehicle is automatically adjusted to the load conditions while driving. Suspension and ground clearance are increased, which improves driving conditions.

The automatic level control is activated after the vehicle has been driven for some distance, depending on the vehicle loading and the road conditions.

Do not use full payload in the event of a fault. Have the cause of the fault remedied by a workshop.

# Cruise control

The cruise control can store and maintain speeds of approx. 20 to 120 mph. Deviations from the stored speeds may occur when driving uphill or downhill.

For safety reasons the cruise control cannot be activated until the foot brake has been operated once.

Do not use the cruise control if it is not advisable to maintain a constant speed.

With automatic transmission or manual transmission automated, only activate cruise control in automatic mode.

Control indicator ⇨ 98.

### Activation

Briefly press the button: the current speed is stored and maintained.

Vehicle speed can be increased by depressing the accelerator pedal. When the accelerator pedal is released, the previously stored speed is resumed.

The speed is saved until the ignition is switched off.

To resume the saved speed, briefly press the button at a speed above 20 mph.

### Increase speed

With cruise control active, hold down button or briefly press it repeatedly: speed is increased continuously or in small increments.

When button is released the current speed is stored and maintained.

### Reduce speed

With cruise control active, hold down button or briefly press it repeatedly: speed is reduced continuously or in small increments.

When button is released the current speed is stored and maintained.

### Deactivation

Briefly press the O button: cruise control is deactivated.

Automatic deactivation:

- Vehicle speed below approx. 20 mph
- The brake pedal is depressed
- The clutch pedal is depressed
- Selector lever in **N**.

# Object detection systems

## Parking assist

The parking assist makes parking easier by measuring the distance between the vehicle and obstacles. It is the driver, however, who bears full responsibility for parking.

The system consists of four ultrasonic parking sensors in each of the front and rear bumpers.

Control indicator P ⇨ 94.

**Note**
Attached parts in the detection area cause system malfunction.

### Activation

When reverse gear is engaged, the system switches itself on automatically.

The system can also be activated at low speed by pressing the P button.

An obstacle is indicated by buzzers. The interval between the buzzers becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 30 cm, the buzzer is continuous.

**⚠Warning**

Under certain circumstances, various reflective surfaces on objects or clothing as well as external noise sources may cause the system to fail to detect obstacles.

### Deactivation

Deactivate the system by pressing the P button.

The system deactivates automatically when reverse gear is disengaged.

### Towing equipment

The system automatically detects factory-fitted towing equipment.

When towing, plugging the trailer cable into the socket automatically switches the parking assist off.

# Fuel

## Fuel for petrol engines

Only use unleaded fuel that complies with EN 228.

Usage of fuel with quality, not complying to the Technical Regulations can lead to engine damage and loss of all warranty obligations.

Equivalent standardised fuels with an ethanol content of max. 10 % by volume may be used. In this case only use fuel that complies with E DIN 51626-1.

Use fuel with the recommended octane rating ⇨ 210. Use of fuel with too low an octane rating can reduce engine power and torque and slightly increases fuel consumption.

**Caution**

Use of fuel that does not comply to EN 228 or similar can lead to deposits or engine damage and loss of warranty.

**Caution**

Use of fuel with too low an octane rating could lead to uncontrolled combustion and engine damage.

## Fuel for diesel engines

Only use diesel fuel that complies with EN 590.

Usage of fuel with quality, not complying to the Technical Regulations can lead to engine damage and loss of all warranty obligations.

In countries outside the European Union use Euro-Diesel fuel with a sulfur concentration below 50 ppm.

**Caution**

Use of fuel that does not comply to EN 590 or similar can lead to engine powerloss, increased wear or engine damage and loss of warranty.

Do not use marine diesel oils, heating oils, Aquazole and similar diesel-water emulsions. Diesel fuels must not be diluted with fuels for petrol engines.

## Refuelling

**⚠Danger**

Before refuelling, switch off engine and any external heaters with combustion chambers (identified by sticker on fuel filler flap). Switch off any mobile phones.

Follow the operating and safety instructions of the filling station when refuelling.

**⚠Danger**

Fuel is flammable and explosive. No smoking. No naked flames or sparks.

If you can smell fuel in your vehicle, have the cause of this remedied immediately by an authorized dealer.

**Caution**

In case of misfuelling, do not switch on ignition.

Fuel filler flap is located at right rear side of vehicle.

The fuel filler flap can only be opened if the vehicle is unlocked.

The fuel filler cap can be retained in the bracket on the fuel filler flap.

| Caution |
| --- |
| Wipe off any overflowing fuel immediately. |

## Fuel filler cap

Only a genuine fuel filler cap provides full functionality. Diesel-engined vehicles have special fuel filler caps.

# Fuel consumption - $CO_2$-Emissions

The fuel consumption is within a range of 3.9 to 13.3 l/100 km.

The $CO_2$ emission is within a range of 119 to 228 g/km.

## General information

For the values specific for your vehicle, refer to the EEC Certificate of Conformity provided with your vehicle or other national registration documents.

The determination of fuel consumption is regulated by directive R (EC) No. 715/2007 (in the newest version respectively).

The specification of $CO_2$ emission is also a constituent of the directive.

The figures given must not be taken as a guarantee for the actual fuel consumption of a particular vehicle. Furthermore, fuel consumption is dependent on personal driving style as well as road and traffic conditions.

All values are based on the EU base model with standard equipment.

The calculation of fuel consumption takes into account the vehicle's kerb weight, ascertained in accordance with the regulations. Optional equipment may result in slightly higher fuel consumption and $CO_2$ emission levels and a lower maximum speed.

# Towing

## General information

Only use towing equipment that has been approved for your vehicle. Entrust retrofitting of towing equipment to a workshop. It may be necessary to make changes that affect the cooling system, heat shields or other equipment.

Do not mount towing equipment to vehicles with Z 20 LEH engine.

Fitting of towing equipment could cover the opening of the towing eye. If this is the case use the coupling ball bar for towing. Always keep the coupling ball bar in the vehicle.

Installation dimensions of factory-fitted towing equipment ⇨ 241.

## Driving characteristics and towing tips

Before attaching a trailer, lubricate the coupling ball. However, do not do so if a stabiliser, which acts on the coupling ball, is being used to reduce snaking movements.

For trailers with low driving stability and trailers with a permitted gross vehicle weight of more than 1300 kg (Hatchback) / 1200 kg (Estate) a speed of 50 mph must not be exceeded; the use of a stabiliser is recommended.

If the trailer starts snaking, drive more slowly, do not attempt to correct the steering and brake sharply if necessary.

When driving downhill, drive in the same gear as if driving uphill and drive at a similar speed.

Adjust tyre pressure to the value specified for full load ⇨ 226.

## Trailer towing

### Trailer loads

The permissible trailer loads are vehicle and engine-dependent maximum values which must not be exceeded. The actual trailer load is the difference between the actual gross weight of the trailer and the actual coupling socket load with the trailer coupled.

The permissible trailer loads are specified in the vehicle documents. In general, they are valid for gradients up to max. 12 %.

The permitted trailer load applies up to the specified incline and up to an altitude of 1000 metres above sea level. Since engine power decreases as altitude increases due to the air becoming thinner, therefore reducing climbing ability, the permissible gross train weight also decreases by 10 % for every 1000 metres of additional altitude. The gross train weight does not have to be reduced when driving on roads with slight inclines (less than 8 %, e. g. motorways).

The permissible gross train weight must not be exceeded. This weight is specified on the identification plate ⇨ 206.

### Vertical coupling load

The vertical coupling load is the load exerted by the trailer on the coupling ball. It can be varied by changing the weight distribution when loading the trailer.

The maximum permissible vertical coupling load (75 kg) is specified on the towing equipment identification plate and in the vehicle documents. Always aim for the maximum load, especially in the case of heavy trailers. The vertical coupling load should never fall below 25 kg.

### Rear axle load

When the trailer is coupled and the towing vehicle fully loaded, the permissible rear axle load (see identification plate or vehicle documents) may be exceeded by 65 kg and the permissible gross vehicle weight by 45 kg for the Hatchback. For the Estate, the permissible rear axle load may be exceeded by 60 kg and the permissible gross vehicle weight by 30 kg. If the permissible rear axle load is exceeded, a maximum speed of 60 mph applies.

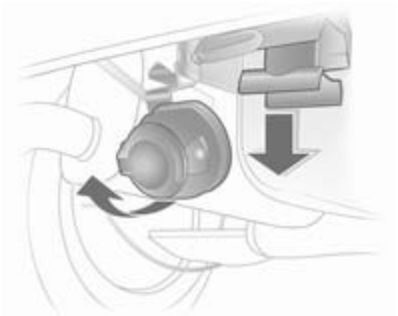
## Towing equipment

| Caution |
| --- |
| When operating without a trailer, remove the coupling ball bar. |

### Stowage of coupling ball bar

In Hatchbacks, the coupling ball bar is in a pouch, fastened in the load compartment cargo box with a strap. In Estates, the coupling ball bar is fastened with a strap in a compartment in the spare wheel well of the load compartment.

## Fitting the coupling ball bar



Fold down the socket. Remove the sealing plug from the hole for the coupling ball bar and stow it in the load compartment.

### Checking the tensioning of the coupling ball bar

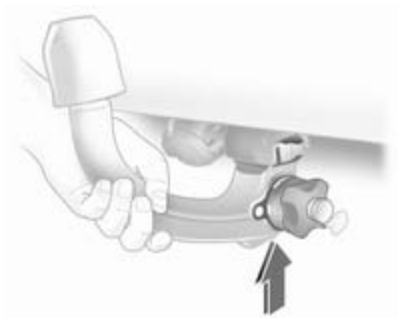
- Red marking on rotary knob must point towards white marking on coupling ball bar.
- The gap between the rotary knob and the coupling ball bar must be approx. 4 millimetres.
- Key must be at position (**1**).

Otherwise, the coupling ball bar must be tensioned before being inserted:

- Unlock coupling ball bar by turning key to position (**1**)

- Pull out rotary knob and turn clockwise as far as it will go.

### Inserting the coupling ball bar



Insert the tensioned coupling ball bar in the opening and push firmly upwards until it audibly engages.

The rotary handle snaps back into its original position resting against the coupling ball bar without a gap.

**⚠Warning**

Do not touch rotary handle during insertion.

Lock the coupling ball bar by turning the key to position (**2**). Remove the key and close the protective flap.

**Eye for break-away stopping cable**

Attach break-away stopping cable to eye.

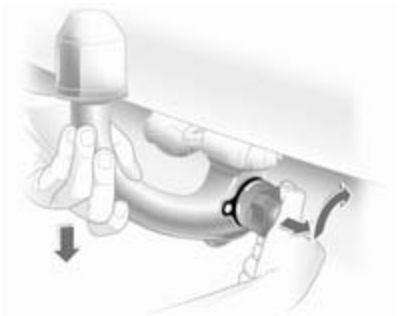
**Check that the coupling ball bar is correctly installed**

- Green marking on rotary knob must point towards white marking on coupling ball bar.
- There must be no gap between the rotary handle and the coupling ball bar.
- The coupling ball bar must be firmly engaged in the opening.
- The coupling ball bar must be locked and the key removed.

**⚠Warning**

Towing a trailer is permitted only when a coupling ball bar is fitted correctly. If the coupling ball bar does not engage correctly, seek the assistance of a workshop.

## Dismounting the coupling ball bar



Open the protective flap and turn the key to position (**1**) to unlock the coupling ball bar.

Pull out rotary handle and turn clockwise as far as it will go. Pull out coupling ball bar downwards.

Insert sealing plug in opening. Fold away socket.

## Trailer stability assist

If the system detects snaking movements, engine power is reduced and the vehicle/trailer combination is selectively braked until the snaking ceases.

Trailer stability assistant (TSA) is a function of the Electronic Stability Program (ESP®[Plus]) ⇨ 143.

# Vehicle care

General Information ..... 155
Vehicle checks ..... 156
Bulb replacement ..... 162
Electrical system ..... 175
Vehicle tools ..... 182
Wheels and tyres ..... 182
Jump starting ..... 194
Towing ..... 195
Appearance care ..... 197

# General Information

## Accessories and vehicle modifications

We recommend using genuine parts and accessories and factory approved parts specific for your vehicle type. We cannot assess or guarantee reliability of other products - even if they have a regulatory or otherwise granted approval.

Do not make any modifications to the electrical system, e.g. changes of electronic control units (chip tuning).

| Caution |
| --- |
| When transporting the vehicle on a train or on a recovery vehicle, the mud flaps might be damaged. |

# Vehicle storage

### Storage for a long period of time

The following must be done if the vehicle should be stored for several months:

- Wash and wax the vehicle.
- Have the wax in the engine compartment and underbody checked.
- Clean and preserve rubber seals.
- Fill up fuel tank completely.
- Change engine oil.
- Drain washer fluid reservoir.
- Check coolant antifreeze.
- Adjust tyre pressure to the value specified for full load.
- Park vehicle in dry, well ventilated place. Engage first or reverse gear or set selector lever to **P**. Prevent the vehicle from rolling.
- Do not apply parking brake.
- Open bonnet, close all doors and lock the vehicle.

- Disconnect the clamp from the negative terminal of the vehicle battery. Be aware that all systems are non-operational, e.g. the anti-theft alarm system.

### Putting back into operation

The following must be done if the vehicle is put back into operation:

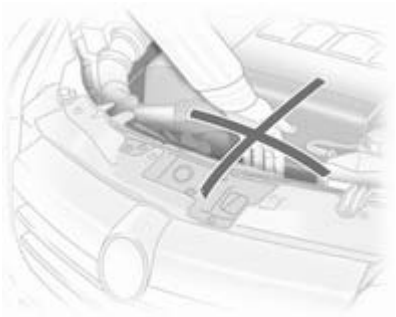
- Connect the clamp to the negative terminal of the vehicle battery. Activate the electronics of the power windows.
- Check tyre pressure.
- Fill up the washer fluid reservoir.
- Check the engine oil level.
- Check the coolant level.
- Fit the number plate if necessary.

## End-of-life vehicle recovery

Information about end-of-life vehicle recovery centres and the recycling of end-of-life vehicles is available on our website. Only entrust this work to an authorised recycling centre.

# Vehicle checks

## Performing work



**⚠Warning**

Only perform engine compartment checks when the ignition is off.

The cooling fan may start operating even if the ignition is off.

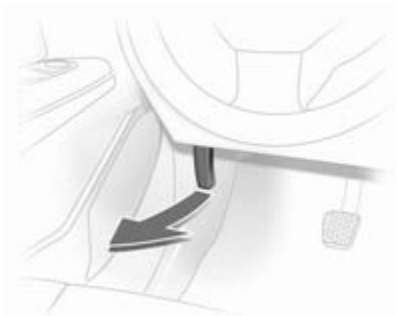
**⚠Danger**

The ignition system and Xenon headlights use extremely high voltage. Do not touch.

The caps for topping up the engine oil, the coolant, the washing fluid and the oil dipstick handle are yellow for ease of identification.

## Bonnet

### Opening



Pull the release lever and return it to its original position.

Lift the safety catch upwards and open the bonnet.

Air intake ⇨ 127.

Secure the bonnet support.

### Closing

Before closing the bonnet, press the support into the holder.

Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

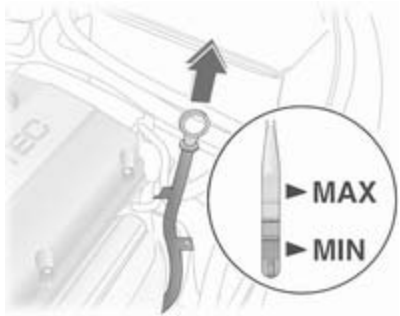
## Engine oil

Check the engine oil level manually on a regular basis to prevent damage to the engine. Ensure that the correct specification of oil is used. Recommended fluids and lubricants ⇨ 202.

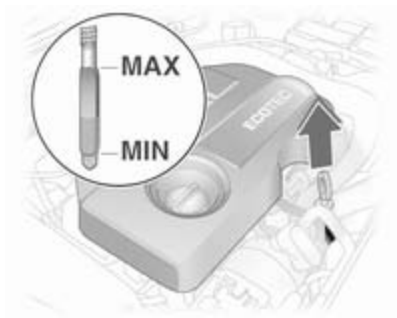
Check with the vehicle on a level surface. The engine must be at operating temperature and switched off for at least 5 minutes.

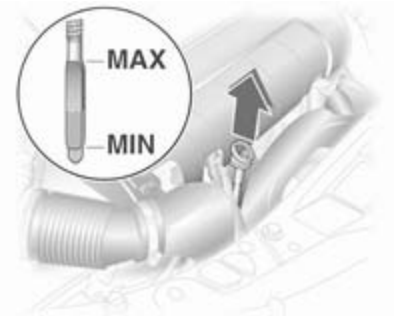
Pull out the dipstick, wipe it clean, insert it to the stop on the handle, pull it out and read the engine oil level.

Insert the dipstick to the stop on the handle and make half a turn.

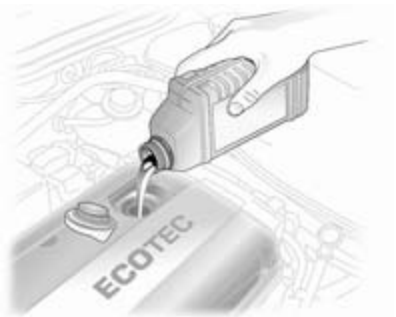



Different dipsticks are used depending on engine variant.






When the engine oil level has dropped to the **MIN** mark, top up engine oil.




We recommend the use of the same grade of engine oil that was used at last change.

The engine oil level must not exceed the **MAX** mark on the dipstick.

| Caution |
| --- |
| Overfilled engine oil must be drained or suctioned out. |

Capacities ⇨ 225.

Fit the cap on straight and tighten it.

## Engine coolant

The coolant provides freeze protection down to approx. -28 °C.

| Caution |
| --- |
| Only use approved antifreeze. |

### Coolant level

| Caution |
| --- |
| Too low a coolant level can cause engine damage. |

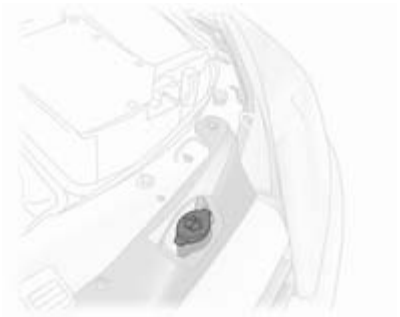
When the cooling system is cold, the coolant level should be just above the **KALT/COLD** mark. Top up if the level is low.

**⚠Warning**

Allow the engine to cool before opening the cap. Carefully open the cap, relieving the pressure slowly.

Top up with antifreeze. If no antifreeze is available, use clean tap water or distilled water. Install the cap tightly. Have the antifreeze concentration checked and have the cause of the coolant loss remedied by a workshop.

## Washer fluid



Fill with clean water mixed with a suitable quantity of windscreen washer fluid which contains antifreeze.

## Brakes

A squealing noise indicates that the brake lining is at its minimum thickness. Continued driving is possible but have the brake lining replaced as soon as possible.

Once new brake linings are installed, do not brake unnecessarily hard for the first few journeys.

## Brake fluid

**⚠Warning**

Brake fluid is poisonous and corrosive. Avoid contact with eyes, skin, fabrics and painted surfaces.

The brake fluid level must be between the **MIN** and the **MAX** marks.

When topping up, ensure maximum cleanliness as contamination of the brake fluid can lead to brake system malfunctions. Have the cause of the loss of brake fluid remedied by a workshop.

Only use high-performance brake fluid approved for the vehicle. Brake and clutch fluid ⇨ 159.

## Battery

The vehicle battery is maintenance-free provided that the driving profile allows sufficient charging of the battery. Short distance driving and frequent engine starts can discharge the battery. Avoid the use of unnecessary electrical consumers.

Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

Laying up the vehicle for more than 4 weeks can lead to battery discharge. Disconnect the clamp from the negative terminal of the vehicle battery.

Ensure the ignition is switched off before connecting or disconnecting the vehicle battery.

The anti-theft alarm siren must be deactivated as follows: Switch the ignition on then off, disconnect the vehicle's battery within 15 seconds.

Battery discharge protection ⇨ 119.

### Warning label

Meaning of symbols:

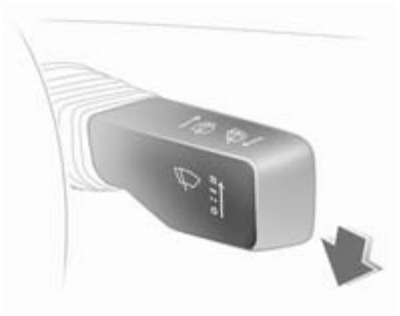
- No sparks, naked flames or smoking.
- Always shield eyes. Explosive gases can cause blindness or injury.
- Keep the battery out of reach of children.
- The battery contains sulfuric acid which could cause blindness or serious burn injuries.
- See the Owner’s Manual for further information.
- Explosive gas may be present in the vicinity of the battery.

## Diesel fuel system bleeding

If the tank has been run dry, the diesel fuel system must be bled. Switch on the ignition three times for 15 seconds at a time. Then crank the engine for a maximum of 40 seconds. Repeat this process after no less than 5 seconds. If the engine fails to start, seek the assistance of a workshop.

## Wiper blade replacement

### Service setting for front windscreen wipers



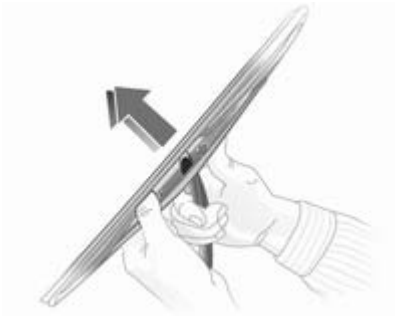
Switch off the ignition but do not remove ignition key or open driver's door.

Within 4 seconds, push the wiper lever down and release as soon as the wipers are vertical.

### Wiper blades on the windscreen

Lift the wiper arm, tilt wiper blade at a 90° to the wiper arm and remove to the side.

### Wiper blade on the rear window



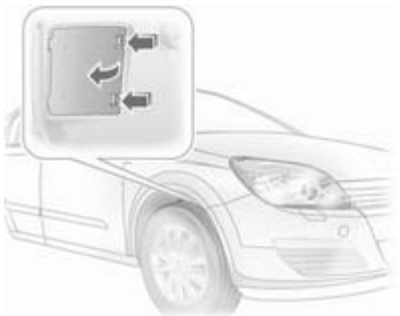
Lift the wiper arm. Disengage the wiper blade and remove.

## Bulb replacement

Switch off the ignition and switch off the relevant switch or close the doors.

Only hold a new bulb at the base! Do not touch the bulb glass with bare hands.

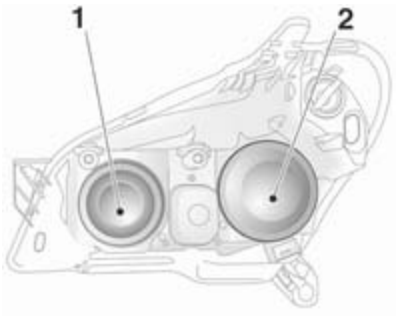
Use only the same bulb type for replacement.



The bulbs of the front outer lights are replaced through openings in the front wheel housing: turn wheels in a way that allows access, release catch and remove cover.

To replace bulbs on the right side of the engine compartment, detach the air hose from the air filter. On the left side, detach the plug to the fuse box.

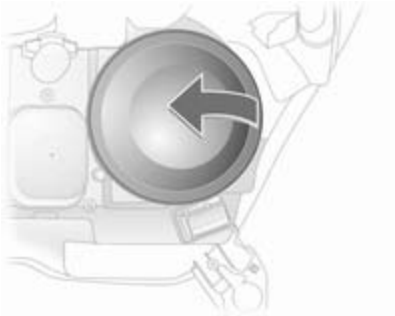
## Halogen headlights



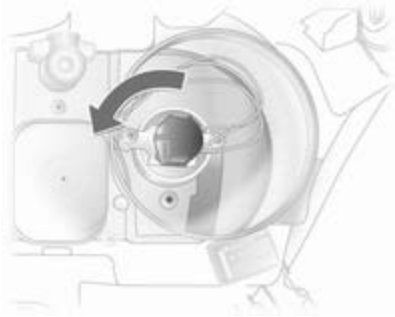

Headlights have separate systems for high beam **1** (inner bulbs) and low beam **2** (outer bulbs).

### Low beam

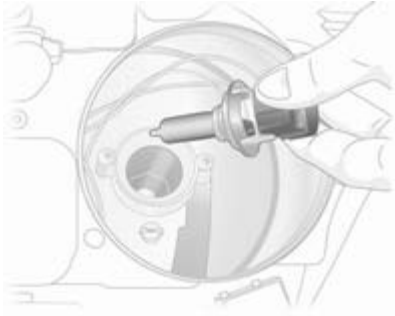
1. Replace bulbs through the opening in the wheel housing.



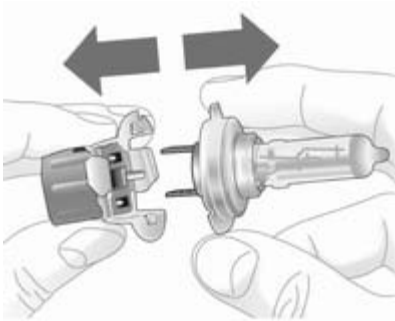
2. Remove protective cover **2**.



3. Rotate the bulb holder anti-clockwise to disengage. Withdraw the bulb holder from the reflector.



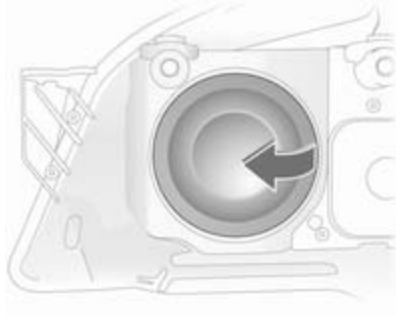
4. Detach bulb from bulb holder and renew the bulb.



5. Insert the bulb holder, engaging the two lugs into the reflector and rotate clockwise to secure.
6. Rotate bulb carrier to the right as far as it will go.
7. Install protective cover.
8. Close the opening in the wheel housing with the cover.

## High beam

1. Access to the bulbs is through the engine compartment.

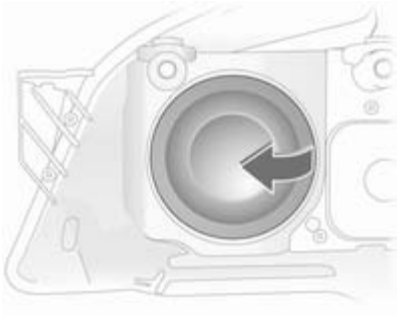


2. Remove protective cover **1**.
3. Detach wiring plug from bulb.

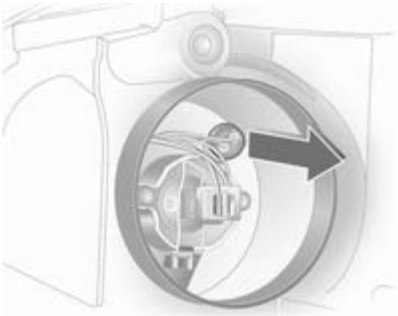
4. Disengage spring clip from retainer by pressing forward and then swinging downwards.
5. Withdraw the bulb from reflector housing.
6. When installing the new bulb, insert lugs in the reflector recesses and engage the spring clip.
7. Install the wiring plug onto bulb.
8. Install protective cover.

## Side lights

1. Access to the bulbs is through the engine compartment.



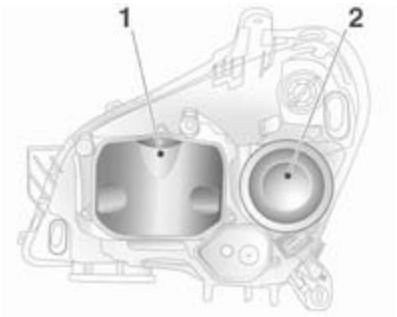
2. Remove protective cover **1**.



3. Withdraw parking light bulb holder from reflector.

4. Remove bulb from socket and renew the bulb.
5. Insert holder in reflector. Install the headlamp protective cover.

## Xenon headlights




Headlamps have separate systems for low beam 1 (inner bulbs) and high beam 2 (outer bulbs).

### Low beam

**⚠ Danger**

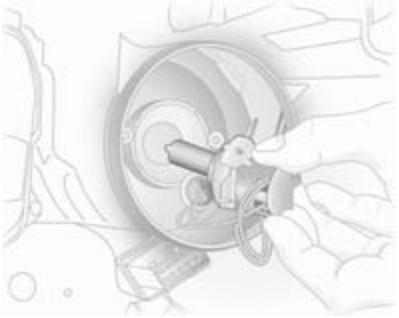
Low beam works under extremely high electrical voltage. Do not touch. Have bulbs replaced by a workshop.

### High beam

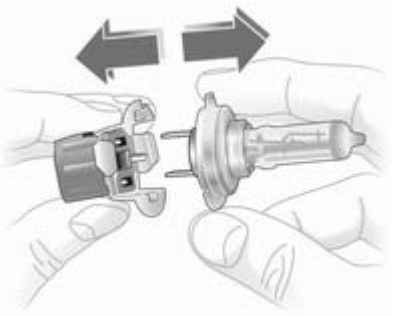
1. Replace bulbs through the openings in the wheel arches.

2. Remove protective cover.

3. Rotate left bulb holder and disengage.



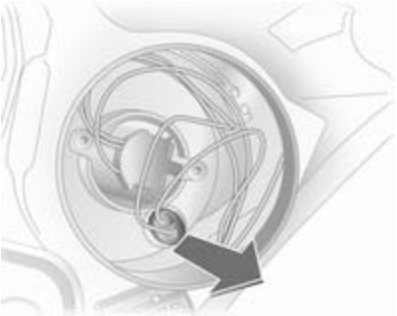
4. Remove the bulb holder with bulb from the reflector.



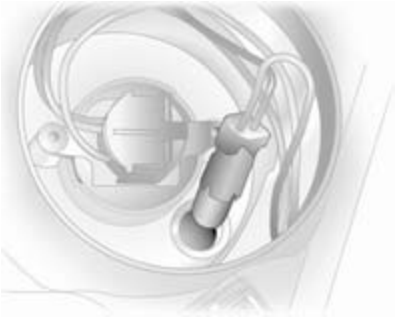
5. Detach bulb from bulb holder.
6. Insert new bulb so that the two lugs on the bulb holder engage in the recesses in the reflector.
7. Rotate bulb holder to the right as far as it will go.
8. Place protective cover in position and close.

## Side lights

1. Replace bulbs through the openings in the wheel arches.
2. Remove main beam headlight protective cover.



3. Remove parking light socket from reflector.



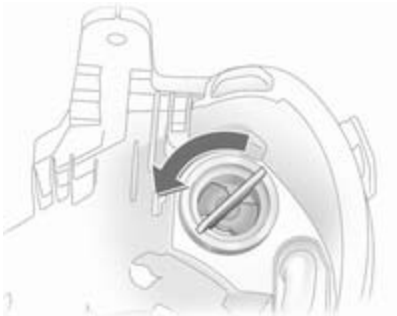
4. Remove bulb from socket and renew bulb.
5. Insert holder in reflector. Place protective cap in position and close.

## Fog lights

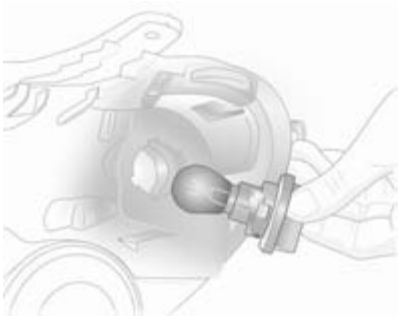
Have bulbs replaced by a workshop.

## Front turn signal lights

1. Replace the bulbs through the opening in the wheel housing.



2. Rotate bulb holder anti-clockwise and disengage.



3. Push bulb slightly into the socket, rotate anti-clockwise, remove and renew bulb.
4. Insert bulb holder in the reflector, rotate clockwise and engage.

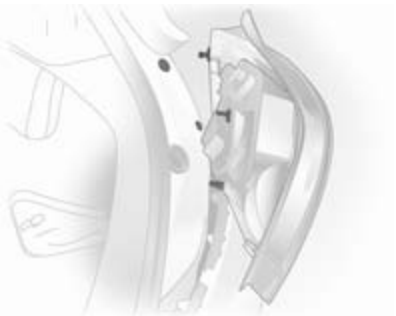
## Tail lights

### Hatchback 5-door

1. To change the bulbs on the right side, use a coin to open the lock and fold down the cover.

   To change bulbs on the left side, use a coin to turn both locks and fold down the cover ⇨ 179.
2. Detach plug connector from bulb holder.

3. Loosen fastening nuts with wheel bolt wrench and unscrew by hand. Vehicle tools ⇨ 182.



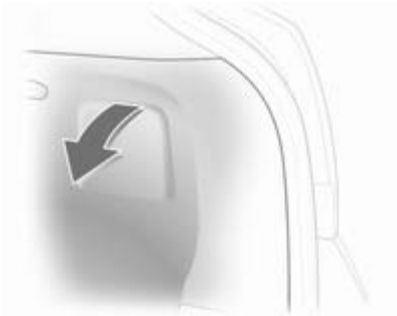
4. Detach bulb housing towards the rear.

5. Unscrew the three screws using a screwdriver. Press the locking tabs on the outside of the bulb holder inwards and remove the bulb holder.

6. Remove and renew the bulb.
   Reverse light (**1**)
   Turn signal light (**2**)
   Reverse light/brake light (**3**)
   Reverse light (**4**)
   Fog light, may be only on one side (**5**)
7. Engage bulb holder in bulb housing, ensuring that it properly engages.

8. Ensure that the seals are applied to the bulb holder and fixing screws.
9. Insert the bulb housing in the body, engaging the lug and the ball pin in the recesses. Tighten the fastening nuts using a wheel bolt wrench. Attach the plug connector. Close and engage the flap.

## Hatchback 3-door

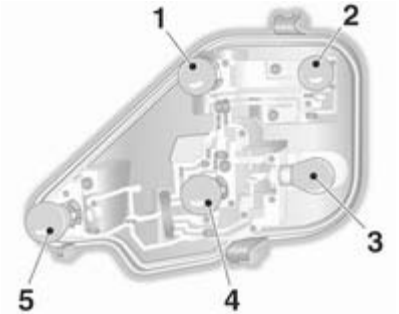


1. To change the bulbs, fold down the cover.
2. Detach plug connector from bulb holder.

3. Loosen fastening nuts with wheel bolt wrench and unscrew by hand. Vehicle tools ⇨ 182.

4. Detach bulb housing towards the rear.

5. Remove seal from the fastening bolt. Press the locking tabs on the outside of the bulb holder outward and remove the bulb holder.

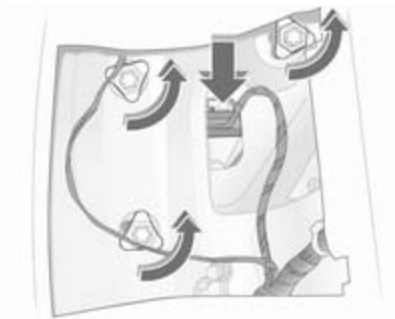



6. Remove and renew the bulb.
   Reverse light (**1**)
   Turn signal light (**2**)
   Reverse light/brake light (**3**)
   Reverse light (**4**)
   Fog light, may be only on one side (**5**)
7. Engage bulb holder in bulb housing, ensuring that it properly engages.

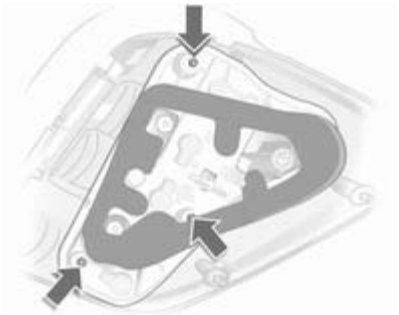
8. Ensure that the seals are applied to the bulb holder and fixing screws.
9. Insert the bulb housing in the body, engaging the lug and the ball pin in the recesses. Tighten the fastening nuts using a wheel bolt wrench. Attach the plug connector. Close and engage the flap.

## Estate, Van

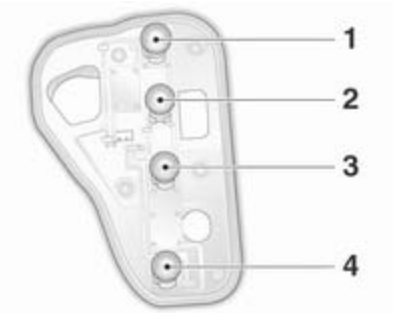
1. Disengage cover by pressing retaining lugs and remove.



2. Detach plug connector from bulb holder.
3. Loosen fastening nuts and remove the bulb housing rearwards.



4. Unscrew the three screws with a screwdriver and remove the bulb holder. Vehicle tools ⇨ 182.



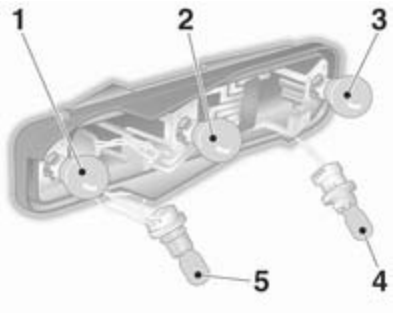

5. Remove and renew the bulb.
   Reverse light/brake light (**1**)
   Turn signal light (**2**)
   Reverse light (**3**)
   Fog light, may be only on one side (**4**)
6. Engage bulb holder in bulb housing and screw in place. Insert the bulb housing into the body and tighten the fastening nuts by hand.
   Attach the plug connector.
   Close and engage the cover.

## TwinTop

1. Unscrew retaining nuts.

2. Remove bulb housing from outside. Disengage plug by pressing on flap and remove from bulb holder.
3. Detach seal from bulb holder.

4. Disengage sockets by turning and remove. Press locking tabs on the long sides of the bulb holder outwards; lift bulb holder at front end and remove.




5. Remove and renew the bulb.
   Reverse light/brake light (**1**)
   Reverse light (**2**)
   Fog light, may be only on one side (**3**)
   Reverse light (**4**)
   Turn signal light (**5**)
6. Insert bulb holder in bulb housing by first inserting the lug at the front of the plug. Fold together bulb holder, ensuring that it engages properly. Insert sockets and engage by turning.

7. Fit seal on bulb holder. Ensure that the seal is flat in the area of the screws.
8. Engage plug. Insert bulb housing in body, ensuring proper positioning of the ball pins in the recesses. Tighten the retaining nuts.

## Side turn signal lights

Have the bulbs replaced by a workshop.

## Number plate light

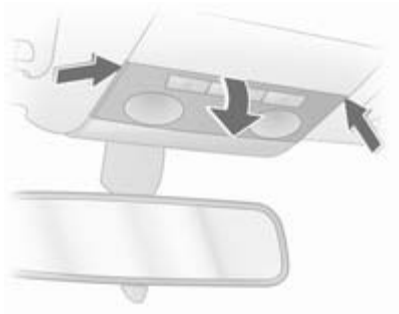
1. Insert a screwdriver in the housing, press to the side and release spring.

2. Remove bulb housing downwards, taking care not to pull on the cable.
3. Lift flap and disconnect wiring plug from bulb holder.

4. Rotate bulb holder anti-clockwise to disengage.
5. Remove bulb from holder and renew bulb.
6. Insert bulb holder in bulb housing and rotate clockwise.
7. Connect wiring plug to bulb holder.
8. Insert and engage bulb housing.

## Interior lights

### Front courtesy light, reading lights



1. Disengage lens, press it slightly downwards and remove at a downward angle.
2. Remove bulb and renew.
3. Engage lens.

### Rear courtesy light and reading lights

Have bulbs replaced by a workshop.

### Glovebox light, load compartment light, foot well light

1. Prise the lamp out with a screwdriver.

2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.
4. Install lamp.

## Instrument panel illumination

Have bulbs replaced by a workshop.

# Electrical system

## Fuses

Data on the replacement fuse must match data on the defective fuse.

The vehicle has two fuse boxes: one behind a cover on the left side of the load compartment and one in the front left of the engine compartment.

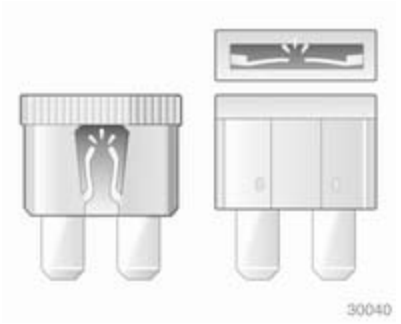
Store spare fuses in the load compartment fuse box version B. Open the cover ⇨ 179.

Before replacing a fuse, turn off the respective switch and the ignition.

A blown fuse can be recognised by its melted wire. Do not replace the fuse until the cause of the fault has been remedied.

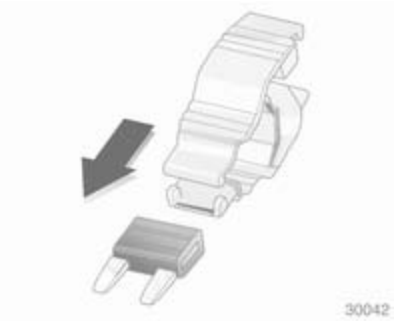
Some functions are protected by several fuses.

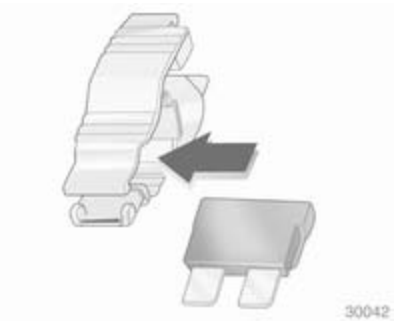
Fuses may also be inserted without existence of a function.



### Fuse extractor

A fuse extractor may be located in the fuse box in the load compartment.



Place the fuse extractor on the various types of fuse from the top or side, and withdraw fuse.

## Engine compartment fuse box

Insert a screwdriver into the opening as far as it will go and tilt it sideways. Open the cover upwards and remove.

The fuse box has two different fuse assignments depending on the load compartment fuse box variant, ⇨ 179.

## Fuse assignments in conjunction with load compartment fuse box version A

| No. | Circuit |
|---|---|
| 1 | ABS |
| 2 | ABS |
| 3 | Interior fan climate control system |
| 4 | Interior fan, heating, air conditioning system |
| 5 | Radiator fan |
| 6 | Radiator fan |
| 7 | Central locking system |
| 8 | Windscreen washer system, tailgate |
| 9 | Heated rear window, heated exterior mirror |
| 10 | Diagnostics plug |
| 11 | Instruments |
| 12 | Mobile telephone, Infotainment system, display |
| 13 | Courtesy light |
| 14 | Windscreen wiper |
| 15 | Windscreen wiper |
| 16 | Horn, ABS, brake light switch, air conditioning system |
| 17 | Diesel fuel filter or air conditioning system |
| 18 | Starter |
| 19 | – |
| 20 | Horn |
| 21 | Engine electronics |
| 22 | Engine electronics |
| 23 | Headlight range adjustment |
| 24 | Fuel pump |
| 25 | – |
| 26 | Engine electronics |

| No. | Circuit |
|---|---|
| 27 | Heating, air conditioning system |
| 28 | – |
| 29 | Power steering |
| 30 | Engine electronics |
| 31 | Rear window wiper |
| 32 | Brake light switch |
| 33 | Headlight range adjustment, light switch, clutch switch, instrument, driver's door module |
| 34 | Control unit, steering column module |
| 35 | Infotainment system |
| 36 | Cigarette lighter, front power outlet |

## Fuse assignments in conjunction with load compartment fuse box version B

| No. | Circuit |
|---|---|
| 1 | ABS |
| 2 | ABS |
| 3 | Interior fan electronic climate control |
| 4 | Interior fan heating and air conditioning system |
| 5 | Radiator fan |
| 6 | Radiator fan |
| 7 | Windscreen washer system |
| 8 | Horn |
| 9 | Headlight washer system |
| 10 | – |
| 11 | – |
| 12 | – |
| 13 | Fog light |
| 14 | Windscreen wiper |
| 15 | Windscreen wiper |
| 16 | Control module electronics, Open&Start system, ABS, brake light switch, TwinTop |
| 17 | Diesel fuel filter heating |
| 18 | Starter |
| 19 | Transmission electronics |
| 20 | Air conditioning system |
| 21 | Engine electronics |
| 22 | Engine electronics |
| 23 | Adaptive forward lighting, headlight range adjustment |
| 24 | Fuel pump |
| 25 | Transmission electronics |
| 26 | Engine electronics |
| 27 | Power steering |
| 28 | Transmission electronics |

| No. | Circuit |
|---|---|
| 29 | Transmission electronics |
| 30 | Engine electronics |
| 31 | Adaptive forward fighting, headlight range adjustment |
| 32 | Brake system, air conditioning system, clutch switch |
| 33 | Adaptive forward lighting, headlight range adjustment, light switch |
| 34 | Control unit, steering column module |
| 35 | Infotainment system |
| 36 | Mobile telephone, Infotainment system, display |

# Load compartment fuse box

The fuse box is behind a cover.

Do not store any objects behind the cover.

Depending on the equipment, there are two different fuse boxes.

## Hatchback 5-door, Estate, Van

To open, turn both catches with a coin and fold down cover .

## Hatchback 3-door

To open, fold the cover upwards.

## TwinTop

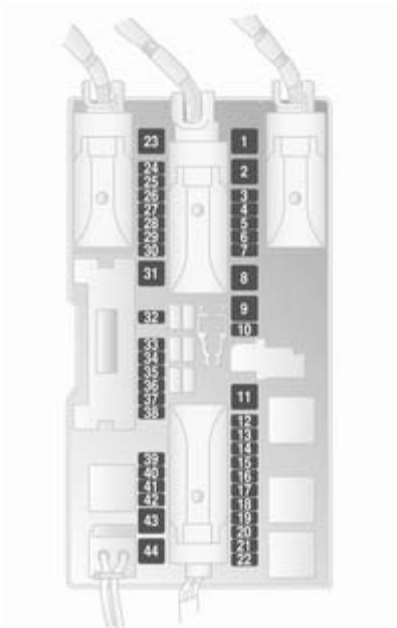
To open, pull the two knobs, remove the clips and fold the cover upwards.

## Fuse box version A

To replace a fuse, remove the relevant protective cap.

| No. | Circuit |
|---|---|
| 1 | Fog light |
| 2 | – |
| 3 | Load compartment power outlet |
| 4 | Reversing lights |
| 5 | Rear power windows |
| 6 | Air conditioning system |
| 7 | Front power windows |
| 8 | Heated exterior mirrors |

## Fuse box version B




| No. | Circuit |
|---|---|
| 1 | Front power windows |
| 2 | – |
| 3 | Instruments |
| 4 | Heating, air conditioning system, electronic climate control |
| 5 | Airbags |
| 6 | – |
| 7 | – |
| 8 | – |
| 9 | – |
| 10 | – |
| 11 | Heated rear window |
| 12 | Rear window wiper |
| 13 | Parking assist |
| 14 | Heating, air conditioning system |
| 15 | – |

| No. | Circuit |
|---|---|
| 16 | Seat occupancy recognition, Open&Start system |
| 17 | Rain sensor, tyre pressure monitoring system, interior mirror |
| 18 | Instruments, switches |
| 19 | – |
| 20 | CDC |
| 21 | Heated exterior mirrors |
| 22 | Sun roof |
| 23 | Rear power windows |
| 24 | Diagnostics plug |
| 25 | – |
| 26 | Electrical foldable exterior mirrors |
| 27 | Ultrasonic sensor, anti-theft alarm system |
| 28 | – |

| No. | Circuit |
|---|---|
| 29 | Cigarette lighter, front power outlet |
| 30 | Rear power outlet |
| 31 | – |
| 32 | – |
| 33 | Open&Start system |
| 34 | Sun roof, TwinTop |
| 35 | Rear power outlet |
| 36 | Socket for towing equipment |
| 37 | – |
| 38 | Central locking system, terminal 30 |
| 39 | Left seat heating |
| 40 | Right seat heating |
| 41 | – |
| 42 | – |

| No. | Circuit |
|---|---|
| 43 | – |
| 44 | – |

# Vehicle tools

## Tools

### Vehicles with tyre repair set

The tool kit and tyre repair set are in a storage compartment below the floor cover in the load compartment.

### Vehicles with spare wheel

The jack and tool kit are in a stowage compartment in the boot below the spare wheel. Spare wheel ⇨ 192

### TwinTop

The tools for emergency operation of the convertible hardtop are stowed in the glove compartment.

# Wheels and tyres

### Tyre condition, wheel condition

Drive over edges slowly and at right angles if possible. Driving over sharp edges can cause tyre and wheel damage. Do not trap tyres on the kerb when parking.

Regularly check the wheels for damage. Seek the assistance of a workshop in the event of damage or unusual wear.

## Tyres

Tyres of size 225/45 R 17 are only permitted if the vehicle is equipped with electronic stability program.

### Astra VXR "Nürburgring Edition" with tyres 225/40 ZR 18

This model is factory-fitted with high-performance sports tyres, size 225/40 ZR 18. These tyres are approved for use on public roads but have typical racing characteristics and a correspondingly shallow tread. The tyres provide sportily oriented and experienced drivers with better performance at faster speeds on dry road surfaces but can cause the vehicle to break away without warning if this limit is exceeded. Avoid adopting a risky driving style because of this improved performance. In wet conditions adapt your driving style and speed to the shallow tread.

## Winter tyres

Winter tyres improve driving safety at temperatures below 7 °C and should therefore be fitted on all wheels.

Tyres of size 185/65 R 15, 195/60 R 15, 195/65 R 15 and 205/55 R 16 can be used as winter tyres.

Tyres of size 205/50 R17 must only be used as winter tyres.

Tyres of size 215/45 R 17, 225/45 R 17, 225/40 R 18[1)] and 235/35 R 19 must not be used as winter tyres.

Hatchback, Estate, Van: tyres of size 215/45 R 17 are only approved as winter tyres if the vehicle was equipped with 18-inch wheels in the factory.

Winter tyres may only be used on the Astra VXR on special alloy wheels approved by Vauxhall.

Run-flat winter tyres may only be used on factory approved alloy wheels.

In accordance with country-specific regulations, affix the speed sticker in the driver's field of view.

## Run-flat tyres

Run-flat tyres have reinforced, self-supporting sidewalls, which ensure that the tyres always have a certain amount of driveability, even when there is no pressure.

Run-flat tyres are only permitted on vehicles with electronic stability program and tyre pressure monitoring system or deflation detection system.

| Caution |
| --- |
| Check tyre pressures regularly even if run-flat tyres are fitted. |

Depending on tyre manufacturer, run-flat tyres can be identified from a marking on the tyre wall. E.g.

**ROF** = RunonFlat for Goodyear or

**SSR** = Self Supporting Runflat Tyre for Continental.

Use of run-flat tyres is only permitted in combination with factory approved alloy wheels.

1) Astra VXR: Permitted as winter tyres without tyre chains.

Do not use a tyre repair kit.

The ECO tyre pressure must not be used.

Run-flat tyres must not be combined with standard tyres.

If converting to standard tyres, note that the vehicle is not equipped with a spare wheel or tyre repair kit.

### Driving with a damaged tyre

A loss in tyre pressure is indicated by the tyre pressure monitoring system or the deflation detection system.

If a tyre has no pressure, continued driving is possible

- at a speed of max. 50 mph
- up to a distance of 50 miles

**⚠Warning**

The vehicle will be more difficult to steer and handle. Braking distance will be longer.

Adapt driving style and speed to the changed conditions.

## Tyre designations

E.g. **195/65 R 15 91 H**

**195** = Tyre width, mm
**65** = Cross-section ratio (tyre height to tyre width), %
**R** = Belt type: Radial
**RF** = Type: RunFlat
**15** = Wheel diameter, inches
**91** = Load index e.g. 91 is equivalent to 618 kg
**H** = Speed code letter

Speed code letter:

**Q** = up to 100 mph
**S** = up to 112 mph
**T** = up to 118 mph
**H** = up to 130 mph
**V** = up to 150 mph
**W** = up to 168 mph

## Tyre pressure

Check the pressure of cold tyres at least every 14 days and before any long journey. Do not forget the spare wheel. This also applies to vehicles with tyre pressure monitoring.

Remove the valve cap key from the fuel filler flap and use it to unscrew the valve cap.

On vehicles with tyre pressure monitoring system, screw the adapter to the valve.

Tyre pressure ⇨ 226.

The tyre pressure data refer to cold tyres. It applies to summer and winter tyres.

Always inflate the spare wheel to the pressure specified for full load.

The ECO tyre pressure serves to achieve the smallest amount of fuel consumption possible. It must not be used with run-flat tyres.

Incorrect tyre pressures will impair safety, vehicle handling, comfort and fuel economy and will increase tyre wear.

**⚠Warning**

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blow-out at high speeds.

## Tyre pressure monitoring system

The tyre pressure monitoring system continually checks the pressure of all four wheels when vehicle speed exceeds a certain limit.

All wheels must be equipped with pressure sensors and the tyres must have the prescribed pressure. Otherwise, the tyre pressure will be monitored by the deflation detection system ⇨ 186.

The current tyre pressures can be shown in the Info-Display ⇨ 112.

Vehicle messages, tyre pressure ⇨ 107.

Control indicator (!) ⇨ 95.

If a complete set of wheels without sensors is mounted (e.g. four winter tyres), no error message will be displayed. The tyre pressure monitoring system is not operational. Retrofitting of sensors is possible.

The use of commercially available liquid tyre repair kits can impair the function of the system. Factory approved systems can be used.

External high-power radio equipment could disrupt the tyre pressure monitoring system.

### System initialisation

After a wheel change, the system must be initialised: inflate the tyres to the prescribed pressure, switch on the ignition, press and hold the **DDS** button for approx. 4 seconds, control indicator (!) flashes three times.

## Tyre deflation detection system

The tyre deflation detection system continually checks the rotation speed of all four tyres.

If a tyre loses pressure the control indicator (!) illuminates red. Stop immediately and check tyre pressure.

Control indicator (!) ⇨ 95.

### System initialisation

After tyre pressure correction or wheel change, the system must be initialised: Switch on the ignition, press and hold the **DDS** button for approx. 4 seconds, control indicator (!) flashes three times.

## Tread depth

Check tread depth at regular intervals.

Tyres should be replaced for safety reasons at a tread depth of 2-3 mm (4 mm for winter tyres).

The legally permissible minimum tread depth (1.6 mm) has been reached when the tread has worn down as far as one of the tread wear indicators (TWI). Their position is indicated by markings on the sidewall.

If there is more wear at the front than the rear, swap round front wheels and rear wheels periodically.

Tyres age, even if they are not used. We recommend tyre replacement every 6 years.

## Changing tyre and wheel size

If tyres of a different size than those fitted at the factory are used, it may be necessary to reprogram the speedometer and make other vehicle modifications.

After converting to a different tyre size, have the label with tyre pressures replaced.

**⚠Warning**

Use of unsuitable tyres or wheels may lead to accidents and will invalidate the vehicle type approval.

## Wheel covers

Wheel covers and tyres that are factory approved for the respective vehicle and comply with all of the relevant wheel and tyre combination requirements must be used.

If the wheel covers and tyres used are not factory approved, the tyres must not have a rim protection ridge.

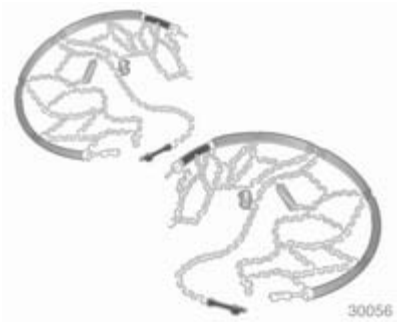
Wheel covers must not impair brake cooling.

Remove the wheel covers if tyre chains are to be installed.

**⚠Warning**

Use of unsuitable tyres or wheel covers could lead to sudden pressure loss and thereby accidents.

## Tyre chains




Tyre chains are only permitted on the front wheels.

Always use fine mesh chains that add no more than 10 mm to the tyre tread and the inboard sides (including chain lock).

**⚠Warning**

Damage may lead to tyre blowout.

Tyre chains are permitted on tyres of size 185/65 R 15, 195/60 R 15, 195/65 R 15, 205/55 R 16 and 205/50 R17.

Tyre chains are not permitted on tyres of size 225/45 R 17, 225/40 R 18, 225/40 ZR18 and 235/35 R 19[2)].

Hatchback, Estate, Van: tyre chains are only approved on tyres of size 215/45 R 17 if the vehicle was equipped with 18-inch wheels in the factory.

The use of tyre chains is not permitted on the temporary spare wheel.

2) Just permitted with limitation steering angle.

## Tyre repair kit

Minor damage to the tyre tread can be repaired with the tyre repair kit.

Do not remove foreign bodies from the tyres.

Tyre damage exceeding 4 mm or that is near the rim cannot be repaired with the tyre repair kit.

| ⚠Warning |
| --- |
| Do not drive faster than 50 mph.<br>Do not use for a lengthy period.<br>Steering and handling may be affected. |

If you have a flat tyre:

Apply parking brake and engage first gear, reverse gear or **P**.

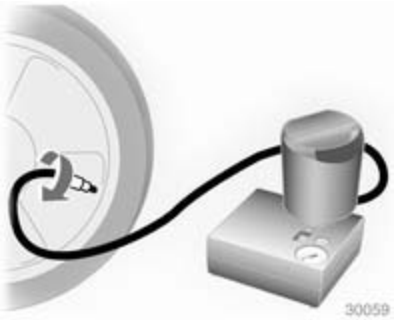
The tyre repair kit is in the stowage compartment under the floor cover in the load compartment.

1. Take the pouch with the tyre repair kit from the compartment. Carefully remove the components from the pouch.
2. Remove the compressor.

3. Remove the electrical connection cable and air hose from the stowage compartments on the underside of the compressor.

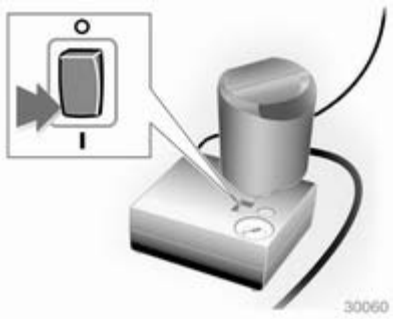
4. Screw the compressor air hose to the connection on the sealant bottle.
5. Fit the sealant bottle into the retainer on the compressor.

   Set the compressor near the tyre in such a way that the sealant bottle is upright.




6. Unscrew valve cap from defective tyre.
7. Screw tyre inflation hose to valve.
8. The switch on the compressor must be set to O.
9. Connect the compressor plug to the accessory socket or cigarette lighter socket.

   To avoid discharging the battery, we recommend running the engine.




10. Set the rocker switch on the compressor to I. The tyre is filled with sealant.
11. The compressor pressure gauge briefly indicates up to 6 bar whilst the sealant bottle is emptying (approx. 30 seconds). Then the pressure starts to drop.
12. All of the sealant is pumped into the tyre. Then the tyre is inflated.

13. The prescribed tyre pressure should be obtained within 10 minutes. Tyre pressure ⇨ 226. When the correct pressure is obtained, switch off the compressor.

    If the prescribed tyre pressure is not obtained within 10 minutes, remove the tyre repair kit. Move the vehicle one tyre rotation. Reattach the tyre repair kit and continue the filling procedure for 10 minutes. If the prescribed tyre pressure is still not obtained, the

tyre is too badly damaged. Seek the assistance of a workshop.

Drain excess tyre pressure with the button over the pressure indicator.

Do not run the compressor longer than 10 minutes.

14. Detach the tyre repair kit. Screw the filler hose to the free connection on the sealant bottle. This prevents sealant leakage. Stow the tyre repair kit in the load compartment.
15. Remove any excess sealant using a cloth.
16. Take the label indicating maximum permitted speed from the sealant bottle and affix in the driver's field of view.
17. Continue driving immediately so that sealant is evenly distributed in the tyre. After driving approx. 6 miles (but no more than 10 minutes), stop and check tyre pressure. Screw compressor air hose directly onto tyre valve and compressor when doing this.

    If tyre pressure is more than 1.3 bar, set it to the correct value. Repeat the procedure until there is no more loss of pressure.

    If the tyre pressure has fallen below 1.3 bar, the vehicle must not be used. Seek the assistance of a workshop.
18. Stow away tyre repair kit in load compartment.

**Note**

The driving characteristics of the repaired tyre is severely affected, therefore have this tyre replaced.

If unusual noise is heard or the compressor becomes hot, turn compressor off for at least 30 minutes.

The built-in safety valve opens at a pressure of 7 bar.

Note the expiry date of the kit. After this date its sealing capability is no longer guaranteed. Pay attention to storage information on sealant bottle.

Replace the used sealant bottle. Dispose of the bottle as prescribed by applicable laws.

The compressor and sealant can be used from approx. -30 °C.

The adapters supplied can be used to pump up other items e.g. footballs, air mattresses, inflatable dinghies etc. They are located on the underside of the compressor. To remove, screw on compressor air hose and withdraw adapter.

## Wheel changing

Some vehicles are equipped with a tyre repair kit instead of a spare wheel ⇨ 188.

Make the following preparations and observe the following information:

- Park the vehicle on a level, firm and non-skid surface. The front wheels must be in the straight-ahead position.
- Apply the parking brake and engage first gear, reverse gear or **P**.
- Remove the spare wheel ⇨ 192.

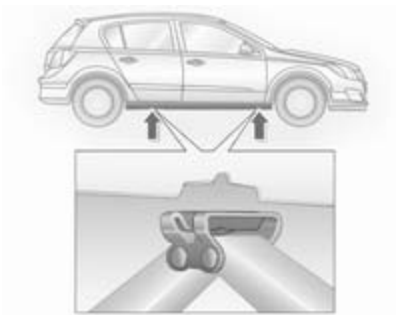
- On the Astra TwinTop, the roof must be closed before the vehicle is raised.
- Never change more than one wheel at once.
- Use the jack only to change wheels in case of puncture, not for seasonal winter or summer tyre change.
- If the ground on which the vehicle is standing is soft, a solid board (max. 1 cm thick) should be placed under the jack.
- No people or animals may be in the vehicle when it is jacked-up.
- Never crawl under a jacked-up vehicle.
- Do not start the vehicle when it is raised on the jack.
- Before screwing in the wheel bolts, clean them and lightly coat the taper of each wheel bolt with commercially available grease.

1. Pull off the wheel cover with the hook. Vehicle tools ⇨ 182.

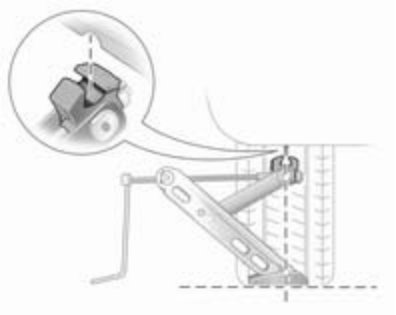
   For wheel covers with visible wheel bolts: The cover can remain on the wheel. Do not remove the retaining rings on the wheel bolts.

   Alloy wheels: Disengage wheel bolt caps with a screwdriver and remove. To protect the wheel, place a soft cloth between the screwdriver and the alloy wheel.

2. Install the wheel wrench ensuring that it locates securely and slacken each bolt by half a turn.



3. Ensure the jack is positioned correctly with the vehicle jacking points.



4. Set the jack to the necessary height before positioning it directly below the jacking point in a manner that prevents it from slipping.

   Attach jack handle and with the jack correctly aligned rotate handle until wheel is clear of the ground.
5. Unscrew the wheel bolts.
6. Change the wheel.
7. Screw in the wheel bolts.
8. Lower vehicle.
9. Install the wheel wrench ensuring that it locates securely and tighten each bolt in a crosswise sequence. Tightening torque is 110 Nm.
10. Align the valve hole in the wheel cover with the tyre valve before installing.

    Install wheel nut caps.
11. Stow the replaced wheel ⇨ 188 and the vehicle tools ⇨ 182.
12. Check the tyre pressure of the installed tyre and also the wheel bolt torque as soon as possible.

Have the defective tyre renewed or repaired.

## Spare wheel

Some vehicles are equipped with a tyre repair kit instead of a spare wheel.

The spare wheel can be classified as a temporary spare wheel depending on the size compared to the other mounted wheels and country regulations.

The spare wheel has a steel rim.

Use of a spare wheel that is smaller than the other wheels or together with winter tyres could affect driveability. Have the defective tyre replaced as soon as possible.

The spare wheel is in the load compartment beneath the floor covering. It is secured in the recess with a wing nut.

The spare wheel well is not designed for all permitted tyre sizes. If a wheel wider than the spare must be stowed in the spare wheel well after changing wheels, the floor cover can be placed on the projecting wheel.

This must be taken into consideration when the load compartment is being loaded, particularly with the Astra TwinTop ⇨ 39.

## Estate

Take adapter and hooks from the rails in the load compartment walls. Raise the rear lashing eyes and lift the floor cover to the vertical position so that it rests on the roof lining. When closing, guide the lashing eyes through the slots in the floor cover. Vehicles with cargo box: removal ⇨ 72.

## TwinTop

Accessing the spare wheel when the roof is open: Engage load compartment cover on the rear window frame and activate the loading aid ⇨ 74. Raise the floor cover in the load compartment.

## Temporary spare wheel

Use of the temporary spare wheel could affect driveability. Have the defective tyre renewed or repaired as soon as possible.

Only mount one temporary spare wheel. Do not drive faster than 50 mph. Take curves slowly. Do not use for a long period of time.

The use of the temporary spare wheel on the rear axle is not permitted while towing another vehicle. Therefore mount the temporary spare wheel on the front axle and a full-size tyre on the rear axle.

Tyre chains ⇨ 187.

## Directional tyres

Fit directional tyres such that they roll in the direction of travel. The rolling direction is indicated by a symbol (e.g. an arrow) on the sidewall.

The following applies to tyres fitted opposing the rolling direction:

- Driveability may be affected. Have the defective tyre renewed or repaired as soon as possible.
- Drive particularly carefully on wet and snow-covered road surfaces.

# Jump starting

Do not start with quick charger.

A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

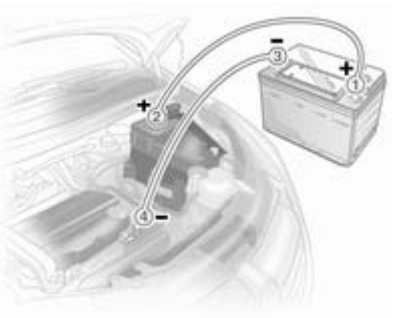
**⚠Warning**

Be extremely careful when starting with jump leads. Any deviation from the following instructions can lead to injuries or damage caused by battery explosion or damage to the electrical systems of both vehicles.

**⚠Warning**

Avoid contact with eyes, skin, fabrics, and painted surfaces. The fluid contains sulphuric acid which can cause injuries and damage in the event of direct contact.

- Never expose the battery to naked flames or sparks.
- A discharged battery can already freeze at temperatures of 0 °C. Defrost the frozen battery before connecting jump leads.
- Wear eye protection and protective clothing when handling a battery.
- Use a booster battery with the same voltage (12 Volts). Its capacity (Ah) must not be much less than that of the discharged battery.
- Use jump leads with insulated terminals and a cross section of at least 16 $mm^2$ (25 $mm^2$ for diesel engines).
- Do not disconnect the discharged battery from the vehicle.
- Switch off all unnecessary electrical consumers.
- Do not lean over the battery during jump starting.
- Do not allow the terminals of one lead to touch those of the other lead.
- The vehicles must not come into contact with each other during the jump starting process.
- Apply the parking brake, transmission in neutral, automatic transmission in **P**.




Lead connection order:

1. Connect the red lead to the positive terminal of the booster battery.
2. Connect the other end of the red lead to the positive terminal of the discharged battery.

3. Connect the black lead to the negative terminal of the booster battery.
4. Connect the other end of the black lead to a vehicle grounding point, such as the engine block or an engine mounting bolt. Connect as far away from the discharged battery as possible, however at least 60 cm.

Route the leads so that they cannot catch on rotating parts in the engine compartment.

To start the engine:

1. Start the engine of the vehicle providing the jump.
2. After 5 minutes, start the other engine. Start attempts should be made for no longer than 15 seconds at an interval of 1 minute.
3. Allow both engines to idle for approx. 3 minutes with the leads connected.
4. Switch on electrical consumers (e.g. headlights, heated rear window) of the vehicle receiving the jump start.
5. Reverse above sequence exactly when removing leads.

# Towing

## Towing the vehicle

Disengage the cover at the bottom and remove downwards.

The towing eye is stowed with the vehicle tools ⇨ 182.

Screw in the towing eye as far as it will go until it stops in a horizontal position.

Attach a tow rope – or better still a tow rod – to the towing eye.

The towing eye must only be used for towing and not recovering the vehicle.

Switch on ignition to release steering wheel lock and to permit operation of brake lights, horn and windscreen wiper.

Open&Start system ⇨ 21.

Transmission in neutral.

Switch on the hazard warning flashers on both vehicles.

| Caution |
| --- |
| Drive slowly. Do not drive jerkily. Excessive tractive force can damage the vehicle. |

When the engine is not running, considerably more force is needed to brake and steer.

To prevent the entry of exhaust gases from the towing vehicle, switch on the air recirculation and close the windows.

Vehicles with automatic transmission must be towed facing forwards, not faster than 50 mph nor further than 60 miles. In all other cases and when the transmission is defective, the front axle must be raised off the ground.

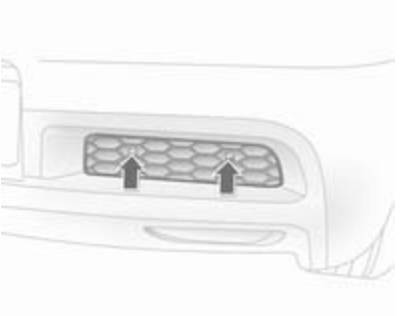
Seek the assistance of a workshop.

Manual transmission automated ⇨ 138.

After towing, unscrew the towing eye and refit the cover.

## Towing another vehicle

Disengage cap at bottom and remove downwards.



For other models unclip locking tabs downward and pull off the cover upwards.

The towing eye is stowed with the vehicle tools ⇨ 182.

Screw in the towing eye as far as it will go until it stops in a horizontal position.

The lashing eye at the rear underneath the vehicle must never be used as a towing eye.

Attach a tow rope – or better still a tow rod – to the towing eye.

The towing eye must only be used for towing and not recovering a vehicle.

| Caution |
| --- |
| Drive slowly. Do not drive jerkily. Excessive tractive force can damage the vehicle. |

After towing, unscrew the towing eye and refit the cover.

Version with cover: install by inserting the bottom lugs of the cover in the bumper, folding and then press the lugs at the top into place.

# Appearance care

## Exterior care

### Locks

The locks are lubricated at the factory using a high quality lock cylinder grease. Use de-icing agent only when absolutely necessary, as this has a degreasing effect and impairs lock function. After using de-icing agent, have the locks regreased by a workshop.

### Washing

The paintwork of your vehicle is exposed to environmental influences. Wash and wax your vehicle regularly. When using automatic car washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage.

If using a car wash, comply with the car wash manufacturer's instructions. The windscreen wipers and rear window wiper must be switched off. Remove antenna and external accessories such as roof racks etc.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet as well as the areas they cover.

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and leather-off the vehicle. Rinse leather frequently. Use separate leathers for painted and glass surfaces: remnants of wax on the windows will impair vision.

## Exterior lights

Headlight and other light covers are made of plastic. Do not use any abrasive or caustic agents, do not use an ice scraper, and do not clean them dry.

## Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads). Otherwise, the paintwork will dry out.

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

## Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

When cleaning the rear window, make sure the heating element inside is not damaged.

For mechanical removal of ice, use a sharp-edged ice scraper. Press the scraper firmly against the glass so that no dirt can get under it and scratch the glass.

Clean smearing wiper blades with a soft cloth and window cleaner.

## Sun roof

Never clean with solvents or abrasive agents, fuels, aggressive media (e.g. paint cleaner, acetone-containing solutions etc.), acidic or highly alkaline media or abrasive pads. Do not apply wax or polishing agents to the middle part of the sun roof.

## Wheels and tyres

Do not use high-pressure jet cleaners.

Clean rims with a pH-neutral wheel cleaner.

Rims are painted and can be treated with the same agents as the body.

## Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms. Have more extensive damage or rust areas repaired by a workshop.

### Underbody

Some areas of the vehicle underbody have a PVC undercoating while other critical areas have a durable protective wax coating.

After the underbody is washed, check the underbody and have it waxed if necessary.

Bitumen/rubber materials could damage the PVC coating. Have underbody work carried out by a workshop.

Before and after winter, wash the underbody and have the protective wax coating checked.

### Engine compartment

Areas of the engine compartment that are painted in the same colour as the vehicle must be looked after like any other painted surface.

It is advisable to wash the engine compartment before and after winter and preserve it with wax. Protect the alternator and brake fluid reservoir with plastic sheets before washing the engine.

When washing the engine with a steam-jet cleaner, do not direct the steam jet towards components of the antilock brake system, air conditioning system or the belt drive and its components.

After an engine wash, have all engine room components preserved thoroughly by a workshop using protective wax.

Do not use high-pressure jet cleaners.

### TwinTop

Clean all seals with a damp soft lint-free cloth. Allow to dry completely. Treat all seals, e. g. on the roof and windscreen frame, with the special maintenance kit (available at your Vauxhall Authorised Repairer) from time to time. Good contact between the fine rubber lips and the sealing surfaces prevents leaks and reduces clamping forces.

Intermediate roof position for cleaning ⇨ 39.

Do not use high-pressure jet cleaners.

### Towing equipment

Do not clean the coupling ball bar with a steam-jet or high-pressure jet cleaner.

## Interior care

### Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

Clean the leather upholstery with clear water and a soft cloth. In case of heavy soiling, use leather care.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with lukewarm water or interior cleaner.

| Caution |
| --- |
| Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery. |

## Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high-pressure jet cleaners.

# Service and maintenance

General information ..... 201
Recommended fluids, lubricants and parts ..... 202

# General information

## Service information

In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified.

The detailed, up-to-date service schedule for your vehicle is available at the workshop.

Service display ⇨ 90.

### European service intervals

Service is due every 20,000 miles or 1 year, whichever occurs first

The European schedule is valid for the following countries:

Andorra, Austria, Belgium, Bosnia-Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Greenland, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom.

Service display ⇨ 90.

### International service intervals

Service is due every 10,000 miles or 1 year, whichever occurs first.

The international service intervals are valid for the countries which are not listed at the european service intervals.

Service display ⇨ 90.

### Confirmations

Confirmation of service is recorded in the Service and Warranty Booklet. The date and mileage is completed with the stamp and signature of the servicing workshop.

Make sure that the Service and Warranty Booklet is completed correctly as continuous proof of service is essential if any warranty or goodwill claims are to be met, and is also a benefit when selling the vehicle.

### Fixed service interval

When service is due, **InSP** appears in the service display for approx. 10 seconds when the ignition is switched on. Have the next service performed by a workshop within one week or 300 miles (whichever occurs first).

Service display ⇨ 90.

### Flexible service interval

The service interval is based on several parameters depending on usage and is calculated using these parameters.

If the remaining distance is less than 1000 miles, **InSP** is displayed with a remaining distance of 600 miles when the ignition is switched on and off. If less than 600 miles remain, **InSP** is displayed for several seconds. Have the next service performed by a workshop within one week or 300 miles (whichever occurs first).

Display of remaining distance:

1. Switch off ignition.
2. Briefly press the trip odometer reset button. The odometer reading is shown.
3. Press and hold the reset button for about 2 seconds. **InSP** and the remaining distance are displayed.

Service display ⇨ 90.

# Recommended fluids, lubricants and parts

## Recommended fluids and lubricants

Only use products that meet the recommended specifications. Damage resulting from the use of products not in line with these specifiations will not be covered by the warranty.

**⚠Warning**

Operating materials are hazardous and could be poisonous. Handle with care. Pay attention to information given on the containers.

### Engine oil

Engine oil is identified by its quality and its viscosity. Quality is more important than viscosity when selecting which engine oil to use. The oil quality ensures e.g. engine cleanliness, wear protection and oil

aging control, whereas viscosity grade gives information on the oil's thickness over a temperature range.

Dexos is the newest engine oil quality that provides optimum protection for gasoline and diesel engines. If it is unavailable, engine oils of other listed qualities have to be used. Recommendations for gasoline engines are also valid for Compressed Natural Gas (CNG), Liquified Petroleum Gas (LPG) and Ethanol (E85) fuelled engines.

Select the appropriate engine oil based on its quality and on the minimum ambient temperature ⇨ 207.

### Topping up engine oil

Engine oils of different manufacturers and brands can be mixed as long as they comply with the required engine oil quality and viscosity.

Use of engine oil with only ACEA A1/B1 or only A5/B5 quality is prohibited, since it can cause long-term engine damage under certain operating conditions.

Select the appropriate engine oil based on its quality and on the minimum ambient temperature ⇨ 207.

### Additional engine oil additives

The use of additional engine oil additives could cause damage and invalidate the warranty.

### Engine oil viscosity grades

The SAE viscosity grade gives information of the thickness of the oil.

Multigrade oil is indicated by two figures, e.g. SAE 5W-30. The first figure, followed by a W, indicates the low temperature viscosity and the second figure the high temperature viscosity.

Select the appropriate viscosity grade depending on the minimum ambient temperature ⇨ 207.

All of the recommended viscosity grades are suitable for high ambient temperatures.

## Coolant and antifreeze

Use only silicate-free long life coolant (LLC) antifreeze.

The system is factory filled with coolant designed for excellent corrosion protection and frost protection down to approx. -28 °C. This concentration should be maintained all year round. The use of additional coolant additives that intend to give additional corrosion protection or seal against minor leaks can cause function problems. Liability for consequences resulting from the use of additional coolant additives will be rejected.

## Brake and clutch fluid

Only use high-performance brake fluid approved for the vehicle, consult a workshop.

Over time, brake fluid absorbs moisture which will reduce braking effectiveness. The brake fluid should therefore be replaced at the specified interval.

Brake fluid should be stored in a sealed container to avoid water absorption.

Ensure brake fluid does not become contaminated.

# Technical data

Vehicle identification ..... 205
Vehicle data ..... 207

# Vehicle identification

## Vehicle Identification Number

The Vehicle Identification Number is stamped on the identification plate and on the floor pan, under the floor covering, visible under a cover.

The Vehicle Identification Number may be embossed on the instrument panel visible through the windscreen.

## Identification plate

The identification plate is located on the front right door frame.

Information on identification plate:

**1** = Manufacturer
**2** = Type approval number
**3** = Vehicle Identification Number
**4** = Permissible gross vehicle weight rating in kg
**5** = Permissible gross train weight in kg
**6** = Maximum permissible front axle load in kg
**7** = Maximum permissible rear axle load in kg
**8** = Vehicle-specific or country-specific data

The combined total of front and rear axle loads must not exceed the permissible gross vehicle weight. For example, if the front axle is bearing its maximum permissible load, the rear axle can only bear a load that is equal to the gross vehicle weight minus the front axle load.

The technical data is determined in accordance with European Community standards. We reserve the right to make modifications.

Specifications in the vehicle documents always have priority over those given in this manual.

# Vehicle data
## Recommended fluids and lubricants

### European service schedule

**Required engine oil quality**

| | All European countries (except Belarus, Moldova, Russia, Serbia, Turkey) | | Only Israel | |
|---|---|---|---|---|
| Engine oil quality | Petrol engines (including CNG, LPG, E85) | Diesel engines | Petrol engines (including CNG, LPG, E85) | Diesel engines |
| **dexos 1** | – | – | ✓ | – |
| **dexos 2** | ✓ | ✓ | – | ✓ |

In case dexos quality is unavailable you may use max. 1 litre engine oil quality ACEA C3 once between each oil change.

**Engine oil viscosity grades**

| | All European countries and Israel (except Belarus, Moldova, Russia, Serbia, Turkey) |
|---|---|
| Ambient temperature | Petrol and diesel engines |
| down to -25 °C | SAE 5W-30 or SAE 5W-40 |
| below -25 °C | SAE 0W-30 or SAE 0W-40 |

## International service schedule

### Required engine oil quality

| | All countries outside Europe except Israel | | Only Belarus, Moldova, Russia, Serbia, Turkey | |
|---|---|---|---|---|
| Engine oil quality | Petrol engines (including CNG, LPG, E85) | Diesel engines | Petrol engines (including CNG, LPG, E85) | Diesel engines |
| **dexos 1** | ✓ | – | – | – |
| **dexos 2** | – | ✓ | ✓ | ✓ |

In case dexos quality is unavailable you may use the oil qualities listed below:

| | All countries outside Europe except Israel | | Only Belarus, Moldova, Russia, Serbia, Turkey | |
|---|---|---|---|---|
| Engine oil quality | Petrol engines (including CNG, LPG, E85) | Diesel engines | Petrol engines (including CNG, LPG, E85) | Diesel engines |
| GM-LL-A-025 | ✓ | – | ✓ | – |
| GM-LL-B-025 | – | ✓ | – | ✓ |

| | All countries outside Europe except Israel | | Only Belarus, Moldova, Russia, Serbia, Turkey | |
|---|---|---|---|---|
| Engine oil quality | Petrol engines (including CNG, LPG, E85) | Diesel engines | Petrol engines (including CNG, LPG, E85) | Diesel engines |
| ACEA A3/B3 | ✓ | – | ✓ | – |
| ACEA A3/B4 | ✓ | ✓ | ✓ | ✓ |
| ACEA C3 | ✓ | ✓ | ✓ | ✓ |
| API SM | ✓ | – | ✓ | – |
| API SN resource conserving | ✓ | – | ✓ | – |

**Engine oil viscosity grades**

| | All countries outside Europe (except Israel), including Belarus, Moldova, Russia, Serbia, Turkey |
|---|---|
| Ambient temperature | Petrol and diesel engines |
| down to -25 °C | SAE 5W-30 or SAE 5W-40 |
| below -25 °C | SAE 0W-30 or SAE 0W-40 |
| down to -20 °C | SAE 10W-30[1)] or SAE 10W-40[1)] |

[1)] Permitted, but usage of SAE 5W-30 or SAE 5W-40 with dexos quality is recommended.

# Engine data

| Sales designation | 1.2 | 1.4 | 1.6 | 1.6 | 1.8 |
|---|---|---|---|---|---|
| Engine identifier code | Z 12 XEP | Z 14 XEP | Z 16 XER, A 16 XER | Z 16 LET, A 16 LET | Z 18 XER, A 18 XER |
| Number of cylinders | 4 | 4 | 4 | 4 | 4 |
| Piston displacement [$cm^3$] | 1229 | 1364 | 1598 | 1598 | 1796 |
| Engine power [kW] | 59 | 66 | 85 | 132 | 103 |
| at rpm | 5600 | 5600 | 6000 | 5500 | 6300 |
| Torque [Nm] | 110 | 125 | 155 | 230 | 175 |
| at rpm | 4000 | 4000 | 4000 | 1980-5500 | 3800 |
| Fuel type | Petrol | Petrol | Petrol | Petrol | Petrol |
| Octane rating RON | | | | | |
| recommended | **95** | **95** | **95** | **95** | **95** |
| possible | 98 | 98 | 98 | 98 | 98 |
| possible | 91 | 91 | 91 | – | 91 |
| Oil consumption [l/1000 km] | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |

| **Sales designation** | **2.0 Turbo** | **2.0 Turbo** | **1.3 CDTI** | **1.7 CDTI** | **1.7** |
|---|---|---|---|---|---|
| **Engine identifier code** | **Z 20 LER** | **Z 20 LEH** | **Z 13 DTH** | **Z 17 DTH** | **Z 17 DTJ, A 17 DTJ** |
| Number of cylinders | 4 | 4 | 4 | 4 | 4 |
| Piston displacement [$cm^3$] | 1998 | 1998 | 1248 | 1686 | 1686 |
| Engine power [kW] | 147 | 177 | 66 | 74 | 81 |
| at rpm | 5400 | 5600 | 4000 | 4400 | 3800 |
| Torque [Nm] | 262 | 320 | 200 | 240 | 260 |
| at rpm | 4200 | 2400-5000 | 1750-2500 | 2300 | 2300 |
| Fuel type | Petrol | Petrol | Diesel | Diesel | Diesel |
| Octane rating RON | | | | | |
| recommended | **95** | **98** | | | |
| possible | 98 | 95 | | | |
| possible | 91[2)] | 91[2)] | | | |
| Oil consumption [l/1000 km] | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |

[2)] Possible only if high engine load, full load or driving in mountainous terrain with a caravan/trailer or high payload is avoided.

| Sales designation | 1.7 | 1.9 CDTI | 1.9 CDTI | 1.9 CDTI |
|---|---|---|---|---|
| Engine identifier code | Z 17 DTR, A 17 DTR | Z 19 DTL | Z 19 DT | Z 19 DTH |
| Number of cylinders | 4 | 4 | 4 | 4 |
| Piston displacement [$cm^3$] | 1686 | 1910 | 1910 | 1910 |
| Engine power [kW] | 92 | 74 | 88 | 110 |
| at rpm | 4000 | 3500 | 3500 | 4000 |
| Torque [Nm] | 280 | 260 | 280 | 320 |
| at rpm | 2300 | 1700-2500 | 2000-2750 | 2000-2750 |
| Fuel type | Diesel | Diesel | Diesel | Diesel |
| Oil consumption [l/1000 km] | 0.6 | 0.6 | 0.6 | 0.6 |

# Performance

## Hatchback 5-door

| Engine | Z12XEP | Z14XEP | Z16XER, A16XER | Z16LET | Z18XER |
|---|---|---|---|---|---|
| Maximum speed[3] [mph] | | | | | |
| Manual transmission | 106 | 111 | 119 | 137 | 129 |
| Manual transmission automated | – | 109 | 119 | – | – |
| Automatic transmission | – | – | – | – | 117 |

| Engine | Z20LER | Z13DTH | Z17DTH | Z17DTJ | Z17DTR |
|---|---|---|---|---|---|
| Maximum speed [mph] | | | | | |
| Manual transmission | 143 | 107 | 112 | 115 / 117[4] | 121 |
| Manual transmission automated | – | 106 | – | – | – |
| Automatic transmission | – | – | – | – | – |

[3] The maximum speed indicated is achievable at kerb weight (without driver) plus 200 kg payload. Optional equipment could reduce the specified maximum speed of the vehicle.

[4] For model with pollutant reduction.

| Engine | A17DTJ | A17DTR | Z19DTL | Z19DT | Z19DTH |
|---|---|---|---|---|---|
| Maximum speed [mph] | | | | | |
| Manual transmission | 116 | 121 | 112 | 121 | 129 |
| Manual transmission automated | – | – | – | – | – |
| Automatic transmission | – | – | – | 117 | – |

## Hatchback 3-door

| Engine | Z14XEP | Z16XER, A16XER | Z16LET, A16LET | Z18XER, A18XER | Z20LER |
|---|---|---|---|---|---|
| Maximum speed [mph] | | | | | |
| Manual transmission | 112 | 120 | 139 | 130 | 145 |
| Manual transmission automated | 111 | 121 | – | – | – |
| Automatic transmission | – | – | – | 118 | – |

| Engine | Z20LEH | Z13DTH | Z17DTH | Z17DTJ | Z17DTR, A17DTR |
|---|---|---|---|---|---|
| Maximum speed [mph] | | | | | |
| Manual transmission | 152 | 108 | 113 | 116 / 117 | 122 |
| Manual transmission automated | – | 108 | – | – | – |
| Automatic transmission | – | – | – | – | – |

| Engine | A17DTJ | A17DTR | Z19DTL | Z19DT | Z19DTH |
|---|---|---|---|---|---|
| Maximum speed [mph] | | | | | |
| Manual transmission | 117 | 122 | 113 | 122 | 130 |
| Manual transmission automated | – | – | – | – | – |
| Automatic transmission | – | – | – | 118 | – |

## Estate

| Engine | Z14XEP | Z16XER, A16XER | Z16LET, A16LET | Z18XER, A18XER |
|---|---|---|---|---|
| Maximum speed [mph] | | | | |
| Manual transmission | 111 | 119 | 137 | 129 |
| Manual transmission automated | – | 119 | – | – |
| Automatic transmission | – | – | – | 117 |

| Engine | Z20LER | Z13DTH | A17DTJ | Z17DTH | Z17DTJ |
|---|---|---|---|---|---|
| Maximum speed [mph] | | | | | |
| Manual transmission | 143 | 107 | 115 | 112 | 115 / 117 |
| Manual transmission automated | – | – | – | – | – |
| Automatic transmission | – | – | – | – | – |

| Engine | Z17DTR, A17DTR | Z19DTL | Z19DT | Z19DTH |
|---|---|---|---|---|
| Maximum speed [mph] | | | | |
| Manual transmission | 121 | 112 | 120 | 129 |
| Manual transmission automated | – | – | – | – |
| Automatic transmission | – | – | 116 | – |

## Van

| Engine | Z14XEP | Z13DTH | Z17DTH | Z17DTJ |
|---|---|---|---|---|
| Maximum speed [mph] | | | | |
| Manual transmission | 111 | 107 | 112 | 115 |
| Manual transmission automated | – | – | – | – |
| Automatic transmission | – | – | – | – |

| Engine | Z17DTR | Z19DTL | Z19DT | Z19DTH |
|---|---|---|---|---|
| Maximum speed [mph] | | | | |
| Manual transmission | 121 | 112 | 120 | 129 |
| Manual transmission automated | – | – | – | – |
| Automatic transmission | – | – | 116 | – |

## TwinTop

| Engine | Z16XER, A16XER | Z16XEP | Z16LET, A16LET |
|---|---|---|---|
| Maximum speed [mph] | | | |
| Manual transmission | 119 | 119 | 142 |
| Manual transmission automated | | – | – |
| Automatic transmission | – | – | – |

| Engine | Z18XER, A18XER | Z19DTH | Z20LER |
|---|---|---|---|
| Maximum speed [mph] | | | |
| Manual transmission | 130 | 132 | 147 |
| Manual transmission automated | – | – | – |
| Automatic transmission | 117 | – | – |

# Vehicle weight

## Kerb weight, basic model, Hatchback, 5-door

| Astra | Engine | Manual transmission | Manual transmission automated | Automatic transmission |
|---|---|---|---|---|
| **without/with air conditioning** [kg] | Z12XEP | 1240/1260 | –/– | –/– |
| | Z14XEP | 1240/1260 | 1240/1260 | –/– |
| | Z16XER | 1270/1290 | 1270/1290 | –/– |
| | Z16LET | –/1355 | –/– | –/– |
| | Z18XER | 1278/1298 | –/– | 1278/1298 |
| | Z20LER | –/1385 | –/– | –/– |
| | Z13DTH | 1340/1355 | 1340/1355 | –/– |
| | A17DTJ, A17DTR | 1385/1400 | –/– | –/– |
| | Z17DTH | 1365/1380 | –/– | –/– |
| | Z17DTJ, Z17DTR | 1385/1400 | –/– | –/– |
| | Z19DTL | 1395/1410 | –/– | –/– |
| | Z19DT | 1395/1410 | –/– | 1425/1440 (1393/1408) [5)] |
| | Z19DTH | 1393/1408 | –/– | –/– |

[5)] Reduced-weight, country-specific models.

## Kerb weight, basic model, Hatchback, 3-door

| Astra | Engine | Manual transmission | Manual transmission automated | Automatic transmission |
|---|---|---|---|---|
| without/with air conditioning [kg] | Z14XEP | 1220/1240 | 1220/1240 | –/– |
| | Z16XER | 1250/1270 | 1250/1270 | –/– |
| | Z16LET | –/1335 | –/– | –/– |
| | Z18XER | 1265/1285 | –/– | 1278/1298 |
| | Z20LER | –/1365 | –/– | –/– |
| | Z20LEH | –/1393 | –/– | –/– |
| | Z13DTH | 1278/1293 | 1278/1293 | –/– |
| | A17DTJ, A17DTR | 1365/1380 | –/– | –/– |
| | Z17DTH | 1345/1360 | –/– | –/– |
| | Z17DTJ, Z17DTR | 1365/1380 | –/– | –/– |
| | Z19DTL | 1375/1390 | –/– | –/– |
| | Z19DT | –/– | –/– | 1393/1408 |
| | Z19DTH | 1390/1405 | –/– | –/– |

## Kerb weight, basic model, Estate

| Astra | Engine | Manual transmission | Manual transmission automated | Automatic transmission |
|---|---|---|---|---|
| without/with air conditioning [kg] | Z14XEP | 1278/1298 | –/– | –/– |
| | Z16XER | 1278/1298 | 1278/1298 | –/– |
| | Z16LET | –/1395 | –/– | –/– |
| | Z18XER | 1278/1298 | –/– | 1350/1370 |
| | Z20LER | –/1393 | –/– | –/– |
| | Z13DTH | 1380/1395 | –/– | –/– |
| | A17DTJ, A17DTR | 1393/1408 | –/– | –/– |
| | Z17DTH | 1393/1408 | –/– | –/– |
| | Z17DTJ, Z17DTR | 1393/1408 | –/– | –/– |
| | Z19DTL | 1393/1408 | –/– | –/– |
| | Z19DT | 1393/1408 | –/– | 1465/1480 |
| | Z19DTH | 1393/1408 | –/– | –/– |

## Kerb weight, basic model, Van

| Astra | Engine | Manual transmission | Manual transmission automated | Automatic transmission |
|---|---|---|---|---|
| without/with air conditioning [kg] | Z14XEP | 1235/1250 | –/– | –/– |
| | Z13DTH | 1335/1350 | –/– | –/– |
| | Z17DTH | 1365/1380 | –/– | –/– |
| | Z17DTJ, Z17DTR | 1385/1400 | –/– | –/– |
| | Z19DT | 1385/1400 | –/– | 1420/1435 |
| | Z19DTL | 1385/1400 | –/– | –/– |
| | Z19DTH | 1395/1410 | –/– | –/– |

## Kerb weight, basic model, TwinTop

| Astra | Engine | Manual transmission | Manual transmission automated | Automatic transmission |
|---|---|---|---|---|
| without/with air conditioning [kg] | Z16XER | 1495/1515 | –/– | –/– |
| | Z16LET | –/1575 | –/– | –/– |
| | Z18XER | 1500/1520 | –/– | 1503/1523 |
| | Z20LER | –/1605 | –/– | –/– |
| | Z19DTH | 1613/1628 | –/– | –/– |

## Additional weight, Hatchback 3-door / 5-door, Estate

| Engine | Z14XEP, Z16XER, Z16LET, Z18XER | Z13DTH, A17DTJ, A17DTR, Z17DTH | Z17DTJ, Z17DTR |
|---|---|---|---|
| Club/Active [kg] | 2.9 | 2.9 | 2.9 |
| Design/Elite [kg] | 12 | 12 | 12 |
| SXi/SRi [kg] | 24.5 | 24.5 | 24.5 |

| Engine | Z20LER | Z19DTL, Z19DT | Z19DTH |
|---|---|---|---|
| Club/Active [kg] | – | 2.9 | 2.9 |
| Design/Elite [kg] | – | 12 | 12 |
| SXi/SRi [kg] | 12.6 | 12.6 | 12.6[6)] |

## Additional weight, Van

| Engine | Z14XEP, Z13DTH | A17DTJ, A17DTR, Z17DTH, Z17DTJ, Z17DTR, Z19DTL, Z19DT, Z19DTH |
|---|---|---|
| Club/Active [kg] | – | – |
| Design/Elite [kg] | – | – |
| SXi/SRi [kg] | 19.3 | 10.5 |

6) On Estate: 24.5

## Heavy accessories

| Accessories | Sun roof | Towing equipment | Split rear seat backrest | Headlamp washer system |
|---|---|---|---|---|
| Weight [kg] | 23 | 21 (not on TwinTop)<br>26 (TwinTop) | 20 (Estate)<br>9 (Hatchback 3-door / 5-door) | 2 (Hatchback 5-door) |

# Vehicle dimensions

| | Hatchback 5-door | Hatchback 3-door | Estate | Van | TwinTop |
|---|---|---|---|---|---|
| Length [mm] | 4249 | 4290 | 4515 | 4515 | 4476 |
| Width without exterior mirrors [mm] | 1753 | 1753 | 1753 | 1753 | 1759 |
| Width with two exterior mirrors [mm] | 2032 | 2032 | 2032 | 2032 | 2021 |
| Height (without antenna) [mm] | 1460 | 1435 | 1500 | 1500 | 1411 |
| Length of load compartment floor [mm] | 819 | 819 | 1085 | 1825 | 805 |
| Load compartment width [mm] | 944 | 944 | 1088 | 1103 | 734 |
| Height of load compartment opening [mm] | 614 | 555 | 766 | 775 | – |
| Wheelbase [mm] | 2614 | 2614 | 2703 | 2703 | 2614 |
| Turning circle diameter [m] | 11.20 | 11.20 | 11.50 | 11.50 | 11.20 |

# Capacities

## Engine oil

| Engine | Z12XEP, Z14XEP | Z16XER, Z16LET, Z18XER, A16XER, A16LET, A18XER | Z20LER | Z13DTH | Z20LEH, Z17DTH | Z17DTJ, Z17DTR, A17DTR, A17DTJ | Z19 DTL, Z19DT, Z19DTH |
|---|---|---|---|---|---|---|---|
| including Filter [l] | 3.5 | 4.5 | 4.25 | 3.2 | 5.0 | 5.4 | 4.3 |
| between MIN and MAX [l] | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

## Fuel tank

| | |
|---|---|
| Petrol/diesel, nominal capacity [l] | 52 |

# Tyre pressures

## Hatchback 3-door / 5-door

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z12XEP | 195/65 R 15, 205/55 R 16 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 250/2.5 (36) |
| Z14XEP | 185/65 R 15, 195/60 R 15 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 250/2.5 (36) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front [kPa/bar](psi) | rear [kPa/bar] (psi) | front [kPa/bar] (psi) | rear [kPa/bar] (psi) | front [kPa/bar] (psi) | rear [kPa/bar] (psi) |
| Z16XER | 185/65 R 15, 195/60 R 15, 215/45 R 17, 225/40 R 18 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 250/2.5 (36) |
| Z16LET | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 270/2.7 (39) | 250/2.5 (36) | – | – | 280/2.8 (41) | 310/3.1 (45) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z18XER | 185/65 R 15, 195/60 R 15, 215/45 R 17, 225/40 R 18 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 250/2.5 (36) |
| Z20LER | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 270/2.7 (39) | 250/2.5 (36) | – | – | 280/2.8 (41) | 310/3.1 (45) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z20LEH | 205/50 R 17[7], 225/40 ZR 18, 235/35 ZR 19, 225/45 R 17[8] | 240/2.4 (35) | 240/2.4 (35) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 225/40 R 18 | 260/2.6 (38) | 240/2.4 (35) | – | – | 280/2.8 (41) | 320/3.2 (46) |
| Z13DTH | 185/65 R 15, 195/60 R 15 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |

[7] Only permitted as winter tyres.
[8] To guarantee a correct speed display, the electronic speedometer must be reprogrammed.

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z17DTH | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| A17DTJ | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| A17DTR | 205/55 R 16 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z17DTJ | 195/65 R 15, | 230/2.3 (33) | 210/2.1 (30) | 290/2.9 (42) | 270/2.7 (39) | 250/2.5 (36) | 290/2.9 (42) |
| | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| Z17DTR | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| Z17DTJ[9)] | 185/65 R 15, 195/60 R 15, 195/65 R 15, 205/55 R 16 | 230/2.3 (33) | 210/2.1 (30) | 290/2.9 (42) | 270/2.7 (39) | 250/2.5 (36) | 290/2.9 (42) |

9) Model with pollutant reduction.

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z19DTL, Z19DT, Z19DTH | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 270/2.7 (39) | 250/2.5 (36) | – | – | 280/2.8 (41) | 310/3.1 (45) |
| all | Temporary spare wheel | 420/4.2 (61) | 420/4.2 (61) | – | – | 420/4.2 (61) | 420/4.2 (61) |

## Estate

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z14XEP | 185/65 R 15, 195/60 R 15 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 260/2.6 (38) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z16XER | 185/65 R 15, 195/60 R 15, 215/45 R 17, 225/40 R 18 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 260/2.6 (38) |
| Z16LET | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 270/2.7 (39) | 250/2.5 (36) | – | – | 280/2.8 (41) | 310/3.1 (45) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z18XER | 185/65 R 15, 195/60 R 15, 215/45 R 17, 225/40 R 18 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 260/2.6 (38) |
| Z20LER | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 270/2.7 (39) | 250/2.5 (36) | – | – | 280/2.8 (41) | 310/3.1 (45) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z13DTH | 185/65 R 15, 195/60 R 15 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| Z17DTH | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| A17DTJ | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| A17DTR | 205/55 R 16<br>225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17,<br>225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| Z17DTJ, Z17DTR | 195/65 R 15,<br>205/55 R 16,<br>225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17,<br>225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| Z17DTJ | 185/65 R 15,<br>195/60 R 15,<br>195/65 R 15,<br>205/55 R 16 | 230/2.3 (33) | 210/2.1 (30) | 290/2.9 (42) | 270/2.7 (39) | 250/2.5 (36) | 290/2.9 (42) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z19DTL, Z19DT, Z19DTH | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 270/2.7 (39) | 250/2.5 (36) | – | – | 280/2.8 (41) | 310/3.1 (45) |
| all | Temporary spare wheel | 420/4.2 (61) | 420/4.2 (61) | – | – | 420/4.2 (61) | 420/4.2 (61) |

## Van

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z14XEP | 185/65 R 15, 195/60 R 15 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16 | 200/2.0 (29) | 200/2.0 (29) | 250/2.5 (36) | 250/2.5 (36) | 210/2.1 (30) | 260/2.6 (38) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z13DTH | 185/65 R 15, 195/60 R 15 | 230/2.3 (33) | 210/2.1 (30) | – | – | 250/2.5 (36) | 290/2.9 (42) |
| | 195/65 R 15, 205/55 R 16 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| Z17DTH | 195/65 R 15, 205/55 R 16, 225/45 R 17 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| Z17DTJ, Z17DTR | 195/65 R 15, 205/55 R 16 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| Z19DTL, Z19DT, Z19DTH | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | 270/2.7 (39) | 250/2.5 (36) | 250/2.5 (36) | 290/2.9 (42) |
| | 215/45 R 17, | 270/2.7 (39) | 250/2.5 (36) | – | – | 280/2.8 (41) | 310/3.1 (45) |

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| | 225/40 R 18 | | | | | | |
| all | Temporary spare wheel | 420/4.2 (61) | 420/4.2 (61) | – | – | 420/4.2 (61) | 420/4.2 (61) |

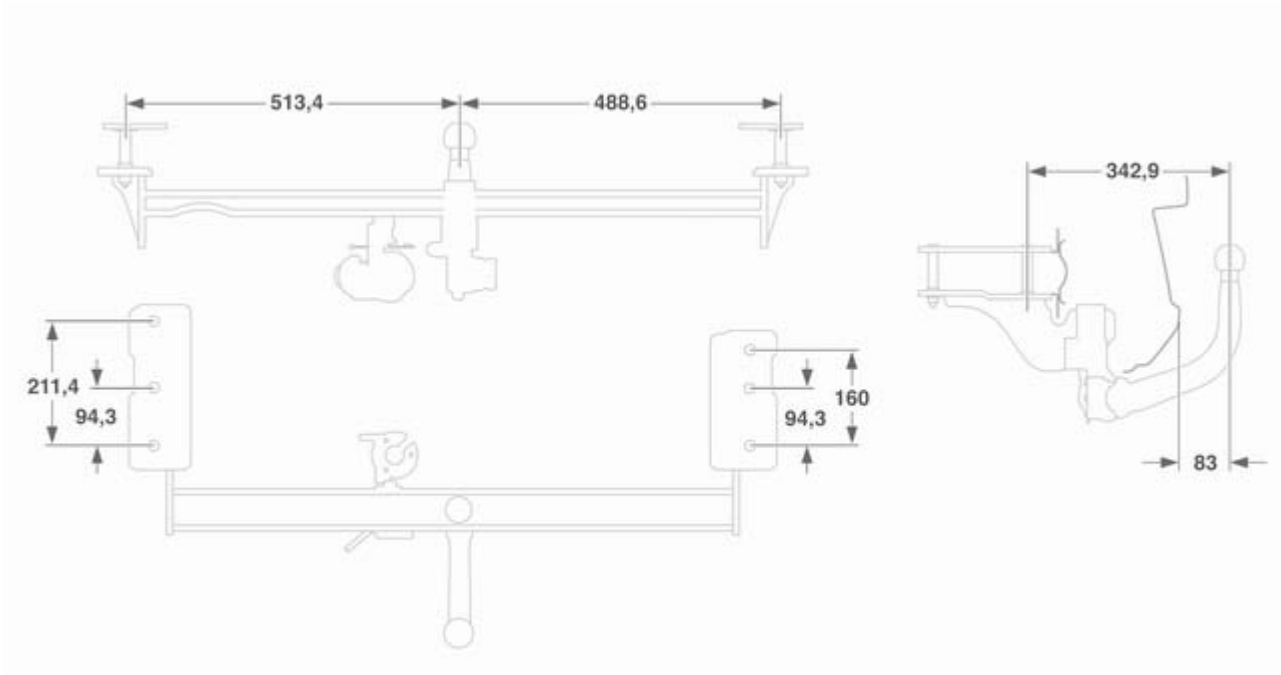
## TwinTop

| Engine | Tyres | Comfort with up to 3 people | | ECO with up to 3 people | | With full load | |
|---|---|---|---|---|---|---|---|
| | | front | rear | front | rear | front | rear |
| | | [kPa/bar](psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) | [kPa/bar] (psi) |
| Z16XER | 225/40 R 18 | 230/2.3 (33) | 210/2.1 (30) | – | – | 240/2.4 (35) | 280/2.8 (41) |
| | 205/55 R 16, 225/45 R 17 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 220/2.2 (32) | 260/2.6 (38) |
| Z16LET | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | – | – | 240/2.4 (35) | 280/2.8 (41) |
| | 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |

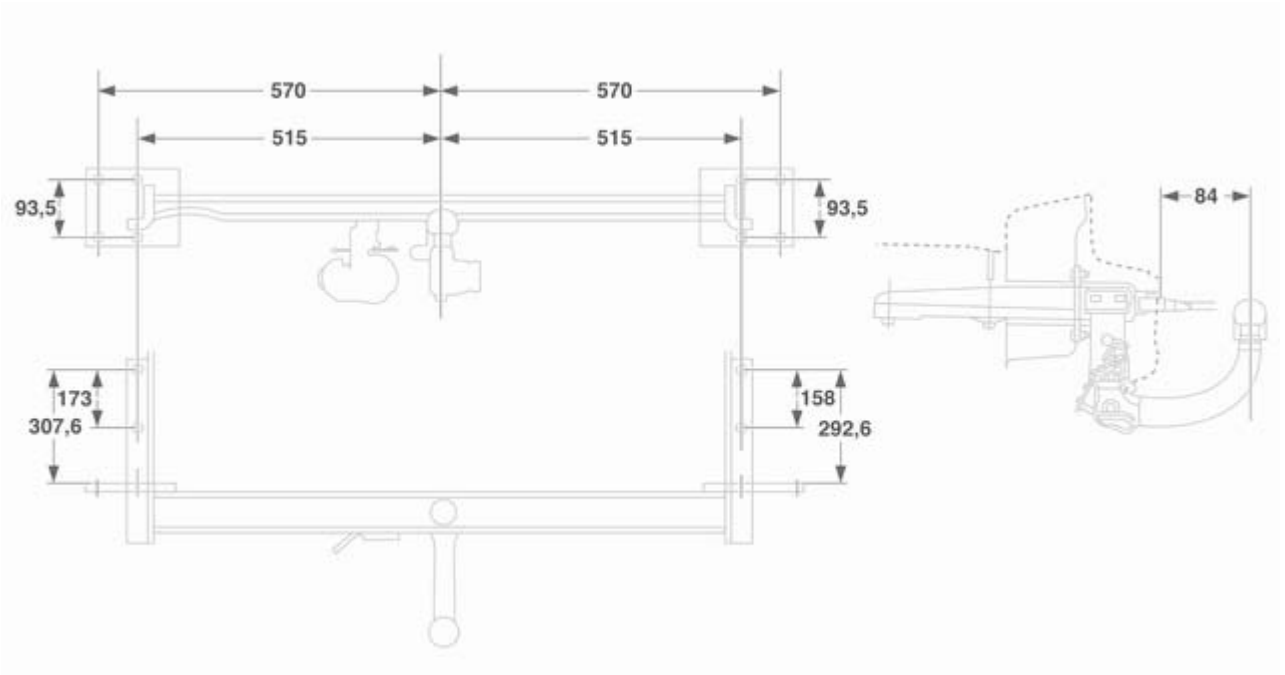
| Engine | Tyres | Comfort with up to 3 people front [kPa/bar](psi) | rear [kPa/bar] (psi) | ECO with up to 3 people front [kPa/bar] (psi) | rear [kPa/bar] (psi) | With full load front [kPa/bar] (psi) | rear [kPa/bar] (psi) |
|---|---|---|---|---|---|---|---|
| Z18XER | 205/55 R 16, 225/45 R 17 | 210/2.1 (30) | 210/2.1 (30) | 250/2.5 (36) | 250/2.5 (36) | 220/2.2 (32) | 260/2.6 (38) |
| | 225/40 R 18 | 230/2.3 (33) | 210/2.1 (30) | – | – | 240/2.4 (35) | 280/2.8 (41) |
| Z19DTH | 205/55 R 16, 225/45 R 17 | 230/2.3 (33) | 210/2.1 (30) | – | – | 240/2.4 (35) | 280/2.8 (41) |
| | 225/40 R 18 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| Z20LER | 205/55 R 16, 225/45 R 17 | 250/2.5 (36) | 230/2.3 (33) | – | – | 260/2.6 (38) | 300/3.0 (43) |
| | 225/40 R 18 | 260/2.6 (38) | 240/2.4 (35) | – | – | 270/2.7 (39) | 310/3.1 (45) |
| all | Temporary spare wheel | 420/4.2 (61) | 420/4.2 (61) | – | – | 420/4.2 (61) | 420/4.2 (61) |

# Towing hitch installation dimensions

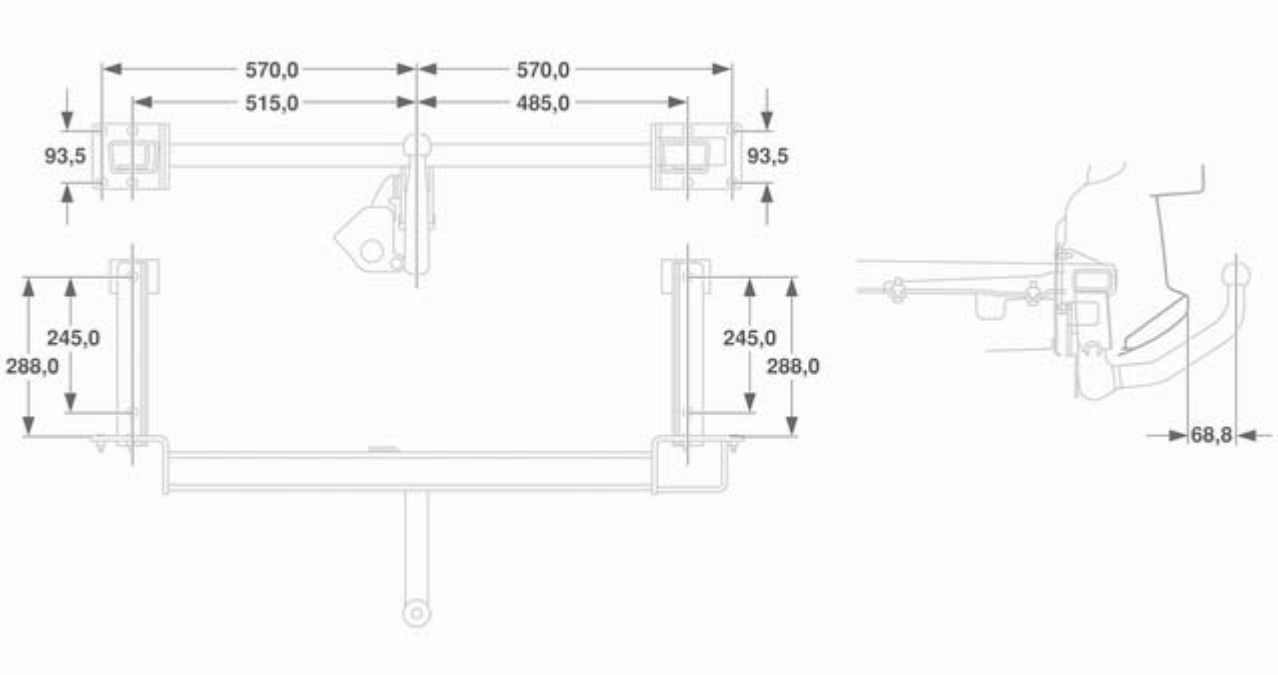
## Hatchback



## Estate, Van



## TwinTop



# Customer information

Vehicle data recording and privacy ..... 244

# Vehicle data recording and privacy

## Event data recorders

The vehicle has a number of sophisticated systems that monitor and control several vehicle data. Some data may be stored during regular operation to facilitate repair of detected malfunctions, other data is stored only in a crash or near crash event by modules in your vehicle systems that have an event data recording function such as the airbag control module.

The systems may record diagnostic data about the condition of the vehicle (e.g. oil level or vehicle mileage) and information how it was operated (e.g. engine speed, brake application and seat belt usage).

To read this data, special equipment and access to the vehicle is required. Some diagnostic data is electronically fed into Vauxhall global systems when the vehicle is serviced in a workshop, in order to document the service history of the vehicle. This enables the workshop to offer you efficient maintenance and repair, tailored to your individual vehicle, each time you bring it back to the workshop.

The manufacturer will not access driver's behavior related information about a crash event or share it with others except:

- with the consent of the vehicle owner or, if the vehicle is leased, of the lessee
- in response to an official request of police or similar government office
- as part of the manufacturer's defense in case of legal proceedings
- as required by law

In addition, the manufacturer may use the collected or received diagnostic data:

- for the manufacturer's research needs
- to make it available for research needs where appropriate confidentiality is maintained and need is shown
- to share summary data which is not tied to a specific vehicle with other organisations for research purposes

## Radio Frequency Identification (RFID)

RFID technology is used in some vehicles for functions such as tyre pressure monitoring and ignition system security. It is also used in connection with conveniences such as radio remote controls for door locking/unlocking and starting, and in-vehicle transmitters for garage door openers. RFID technology in Vauxhall vehicles does not use or record personal information or link with any other Vauxhall system containing personal information.

# Index


A

Accessories and vehicle modifications ..... 155
Active head restraints..... 46
Adaptive forward lighting ..... 97, 115
Adjustable air vents ..... 126
Airbag, belt tensioners and anti-roll bars..... 92
Airbag system ..... 55
Air conditioning regular operation ..... 127
Air conditioning system ..... 121
Air intake ..... 127
Air vents..... 126
Antilock brake system ..... 142
Antilock brake system (ABS) ..... 94
Anti-theft alarm system ..... 29, 107
Anti-theft locking system ..... 28
Appearance care..... 197
Apply footbrake ..... 97
Armrest ..... 50, 51
Armrest storage ..... 66
Ashtrays ..... 87
Automatic anti-dazzle ..... 33
Automatic climate control system ..... 122
Automatic level control ..... 145
Automatic light control ..... 113
Automatic transmission ..... 132
Auxiliary heater..... 126

B

Battery ..... 160
Battery discharge protection ..... 119
Battery voltage ..... 106
Board-Info-Display ..... 98
Bonnet ..... 156
Brake and clutch fluid..... 202
Brake and clutch system ..... 94
Brake assist ..... 143
Brake fluid ..... 159
Brake light switch ..... 106
Brakes ..... 142, 159
Breakdown..... 195
Bulb replacement ..... 162

C

Capacities ..... 225
Cargo management system ..... 72
Car Pass ..... 19
Catalytic converter ..... 132
Central locking system ..... 24
Centre console lighting ..... 118
Changing tyre and wheel size ... 186
Charging system ..... 93
Child locks ..... 27
Child restraint installation locations ..... 60

Child restraints with transponders ..... 63
Child restraint systems ..... 58
Cigarette lighter ..... 87
Climate control ..... 14
Climate control systems..... 120
Clock ..... 85
Continuous damping control ..... 145
Control indicators..... 90
Control of the vehicle ..... 128
Controls..... 82
Convex shape ..... 31
Coolant and antifreeze..... 202
Cruise control ..... 98, 145
Cupholders ..... 65
Curtain airbag system ..... 57
Curve lighting..... 115

D

Danger, Warnings and Cautions ... 3
Daytime running lights ..... 115
Deflation detection system and tyre pressure monitoring system..... 95
Diesel fuel system bleeding ..... 161
Diesel particle filter ..... 131
Door open ..... 98
Doors..... 27
Drain diesel fuel filter ..... 106
Driving characteristics and towing tips ..... 150
Driving hints..... 128

E

Easytronic..... 138
Electric adjustment ..... 31
Electrical system..... 175
Electronic climate control system ..... 123
Electronic driving programmes ..... 135, 139
Electronic Stability Program 95, 143
End-of-life vehicle recovery ..... 156
Engine compartment fuse box ... 176
Engine coolant ..... 158
Engine coolant temperature ..... 95
Engine cooling level ..... 106
Engine data ..... 210
Engine exhaust ..... 131
Engine oil ..... 157, 202, 207
Engine oil pressure ..... 96
Entry lighting ..... 118
Event data recorders..... 244
Exit lighting ..... 119
Exterior care ..... 197
Exterior light ..... 97
Exterior lighting ..... 12, 113
Exterior mirrors..... 31

F

Fault ..... 136, 140
First aid..... 78
First aid kit ..... 78
Fixed air vents ..... 126
Fog light ..... 98
Fog lights ..... 167
Folding ..... 32
Folding tray ..... 77
Front airbag system ..... 55
Front fog lights ..... 116
Front seats..... 47
Front turn signal light..... 162
Front turn signal lights ..... 167
Fuel..... 147
Fuel consumption - $CO_2$-Emissions ..... 149
Fuel for diesel engines ..... 148
Fuel for petrol engines ..... 147
Fuel gauge ..... 90
Fuses ..... 175

G

Gauges..... 89
General information ..... 150
Glovebox ..... 65
Graphic-Info-Display, Colour-Info-Display ..... 101

## H

Halogen headlights ..... 162
Hand brake..... 142, 143
Hazard warning flashers ..... 115
Headlight flash ..... 114
Headlight range adjustment ..... 114
Headlights..... 113
Headlights when driving abroad 114
Head restraint adjustment ..... 8
Head restraints ..... 45
Heated ..... 32
Heated rear window ..... 36
Heating ..... 51
Heating and ventilation system . 120
High beam ..... 97, 114
Hill start assist ..... 143
Horn ..... 13, 83

## I

Identification plate ..... 206
Ignition switch positions ..... 129
Immobiliser ..... 30
Indicators..... 89
Information displays..... 98
Instrument cluster ..... 89
Instrument panel illumination ..... 175
Instrument panel illumination control ..... 117
Instrument panel overview ..... 10
Interactive driving system..... 144
Interactive driving system, continuous damping control, sport mode..... 96
Interior care ..... 199
Interior lighting..... 117
Interior lights ..... 117, 174
Interior mirrors..... 33
Interruption of power supply ..... 136, 141
Introduction ..... 3
Isofix child restraint systems ..... 63

## J

Jump starting ..... 194

## K

Keys ..... 19
Keys, locks..... 19
Keys, memorised settings..... 21

## L

Lashing eyes ..... 72
Lighting ..... 107
Lighting features..... 118
Light switch ..... 113
Load compartment ..... 27, 66
Load compartment cover ..... 70
Load compartment fuse box ..... 179
Load compartment grille..... 77
Loading assist ..... 74
Loading information ..... 80
Load rails and hooks ..... 72
Low engine oil level ..... 96
Low fuel ..... 96

## M

Malfunction indicator light ..... 93
Manual adjustment ..... 31
Manual anti-dazzle ..... 33
Manual mode ..... 134, 139
Manual transmission ..... 137
Manual transmission automated 138
Memorised settings..... 21
Mirror adjustment ..... 9
Misted light covers ..... 117

## N

New vehicle running-in ..... 128
Number plate light ..... 173

## O

Object detection systems..... 146
Odometer ..... 89
Oil, engine..... 202, 207
Open&Start system ..... 21, 97
Outside temperature ..... 85
Overrun cut-off ..... 130

P
Parking ..... 17, 130
Parking assist ..... 146
Parking brake ..... 143
Parking lights ..... 116
Particle filter..... 131
Performance ..... 213
Performing work ..... 156
Pollen filter ..... 127
Power outlets ..... 86
Power windows ..... 34
Preheating and diesel particle filter ..... 95
Puncture..... 190

Q
Quickheat..... 126

R
Radio Frequency Identification (RFID)..... 245
Radio remote control ..... 20
Reading lights ..... 118
Rear fog light ..... 98
Rear fog lights ..... 116
Rear seats..... 51
Rear window wiper/washer ..... 84
Recommended fluids and lubricants ..... 202, 207
Refuelling ..... 148
Retractable hardtop ..... 39
Reversing lights ..... 117
Ride control systems..... 143
Roof..... 37
Roof rack ..... 80
Run-flat tyres ..... 183

S
Safety net ..... 75
Seat adjustment ..... 7, 48
Seat belt ..... 8
Seat belt reminder ..... 92
Seat belts ..... 52
Seat folding ..... 50
Seat occupancy recognition . . 57, 92
Seat position ..... 47
Selector lever ..... 133, 138
Service ..... 127, 201
Service display ..... 90
Service information ..... 201
Service vehicle soon ..... 93
Side airbag system ..... 56
Sidelights..... 113
Side turn signal lights ..... 173
Spare wheel ..... 192
Speedometer ..... 89
Sport mode ..... 94, 144
Starting and operating..... 128
Starting off ..... 16
Starting the engine ..... 129, 138
Steering wheel adjustment ..... 9, 82
Steering wheel controls ..... 82
Stop watch ..... 112
Storage..... 65
Storage compartments..... 65
Sunglasses storage ..... 66
Sunroof ..... 37
Sunvisor lights ..... 118
Sun visors ..... 36
Symbols ..... 4

T
Tachometer ..... 89
Tail lights ..... 167
Three-point seat belt ..... 53
Tools ..... 182
Top-tether child restraint systems ..... 63
Towing..... 150, 195
Towing another vehicle ..... 196
Towing equipment ..... 151
Towing hitch installation dimensions ..... 241
Towing the vehicle ..... 195
Trailer coupling..... 150
Trailer stability assist ..... 154
Trailer towing ..... 150
Transmission ..... 15
Transmission display ..... 132, 138
Tread depth ..... 186

Trip computer in Board-Info-Display ..... 108
Trip computer in Graphic-Info-Display or Colour-Info-Display ..... 109
Triple-Info-Display ..... 98
Trip odometer ..... 89
Turn and lane-change signals ... 116
Turn signal ..... 92
Tyre chains ..... 187
Tyre deflation detection system . 186
Tyre designations ..... 184
Tyre pressure ..... 107, 184
Tyre pressure monitoring system ..... 185
Tyre pressures ..... 112, 226
Tyre repair kit ..... 188
Tyres ..... 182

U

Ultrasonic parking assist ..... 94
Using this manual ..... 3

V

Vehicle checks..... 156
Vehicle data..... 207
Vehicle data recording and privacy..... 244
Vehicle dimensions ..... 224
Vehicle Identification Number .... 205
Vehicle jack..... 182
Vehicle messages ..... 105
Vehicle security..... 28
Vehicle specific data ..... 3
Vehicle storage..... 155
Vehicle tools..... 182
Vehicle unlocking ..... 6
Vehicle weight ..... 219
Ventilation..... 120

W

Warning chimes ..... 105
Warning lights..... 89
Warning triangle ..... 78
Washer and wiper systems ..... 13
Washer fluid ..... 159
Washer fluid level ..... 107
Wheel changing ..... 190
Wheel covers ..... 187
Wheels and tyres ..... 182
Windows..... 33
Windscreen..... 33
Windscreen wiper/washer ..... 83
Winter mode ..... 94
Winter tyres ..... 183
Wiper blade replacement ..... 161

X

Xenon headlights ..... 165